DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

2013 - 2014 ANNUAL REPORT

THE OHIO STATE UNIVERSITY

COLLEGE OF ENGINEERING

TABLE OF CONTENTS

THE OHIO STATE UNIVERSITY
COLLEGE OF ENGINEERING

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Our Mission

The Department of Computer Science and Engineering will impact the information age as a national leader in computing research and education. We will prepare computing graduates who are highly sought after, productive, and well-respected for their work, and who contribute to new developments in computing. We will give students in other disciplines an appropriate foundation in computing for their education, research, and experiences after graduation, consistent with computing's increasingly fundamental role in society. In our areas of research focus, we will contribute key ideas to the development of the computing basis of the information age, advancing the state of the art for the benefit of society, the State of Ohio, and The Ohio State University. We will work with key academic partners within and outside of OSU, and with key industrial partners, in pursuit of our research and educational endeavors.

2013-2014 NEWS & HIGHLIGHTS

Shroff Receives IEEE INFOCOM Achievement Award

Dr. Ness Shroff, the Ohio Eminent Scholar Chaired Professorship of Networking and Communications, received the IEEE INFOCOM Achievement Award for his seminal contributions to scheduling and resource allocation in wireless. The INFOCOM Achievement Award, from the Institute of Electronics and Electrical Engineers (IEEE), was created in 2007 for recipients whose body of work (or a single paper) has had a significant impact on the networking research community.

Dr. Shroff's research interests span the areas of communication, social, and cyber-physical networks. He is especially interested in fundamental problems in the design, control, performance, pricing, and security of these networks. He is a past editor of IEEE/ACM Trans. on Networking and the IEEE Communications Letters, and currently serves on the editorial board of the Computer Networks Journal, IEEE Network Magazine, and the Networking Science journal. He has served on the technical and executive committees of several major conferences and workshops. For example, he was the technical program co-chair of IEEE INFOCOM'03, the premier conference in communication networking, the technical program co-chair of ACM Mobihoc 2008, the general co-chair of WICON'08, and the conference chair of IEEE CCW'99. He has served as a keynote speaker and panelist at several major conferences in the networking area. Dr. Shroff was also a co-organizer of the NSF workshop on Fundamental Research in Networking in 2003, and the NSF workshop on the Future of Wireless Networks in 2009.

Ness is a Fellow of the IEEE, and a National Science Foundation CAREER awardee. His papers have received numerous awards at top-tier venues. For example, he received the best paper award at IEEE INFOCOM 2006 and IEEE INFOCOM 2008, runner-up awards at IEEE INFOCOM 2005 and IEEE INFOCOM 2013, and the best paper of the year in the journal of Communication and Networking (2005) and in Computer Networks (2003). His papers have also received the best student paper award (from all papers whose first author is a student) at IEEE WIOPT 2013, IEEE WiOPT 2012, and IEEE IWQoS 2006.

Shroff received his Ph.D. from Columbia University in 1994. He joined Purdue University immediately thereafter as an assistant professor. At Purdue, he became professor of the school of Electrical and Computer Engineering in 2003 and director of CWSA in 2004, a university-wide center on wireless systems and applications. He joined the Ohio State University ECE and CSE departments in 2007. From 2009-2012, he also served as a guest chaired professor of wireless communications at Tsinghua University, Beijing, China, and currently holds an honorary guest professor position at Shanghai Jiaotong University in China.

D. Wang Recognized for Scholarship

Dr. DeLiang (Leon) Wang received one of six University Distinguished Scholar Awards. This award, established in 1978, is bestowed upon senior faculty with exceptional scholarly accomplishments who have compiled a substantial body of research. The award is supported by the Office of Research. Recipients are nominated by their departments and chosen by a committee of senior faculty, including several past recipients of the award.

Dr. Wang has become one of the most prominent researchers in his field, making ground-breaking contributions to oscillatory correlation theory and solving the speech segregation problem.

Professor Wang's best-known work is perhaps his analysis of neural oscillator networks and his more recent endeavor in segregating the target speech from its acoustic inference. His research team has developed a variety of algorithms in machine perception that have advanced the state-of-art performance by large margins. His algorithms on pitch tracking, dereverberation, singing voice separation, mask estimation and localization-based separation are widely used in the research community.

DeLiang's scholarly work includes more than 100 articles in leading journals and numerous papers in

conference proceedings and edited books. His papers are widely quoted in the literature. He has been continuously funded throughout his career, and currently leads a multimillion-dollar National Institutes of Health effort to help listeners with hearing loss better understand speech in noise.

Wang is an elected Fellow of the Institute of Electrical and Electronics Engineers. He is a recipient of the Office of Naval Research Young Investigator Award and the Helmholtz Award from the International Neural Network Society. He currently serves as co-editor-in-chief of Neural Networks, a premier journal in his field.

Dr. Wang began his academic career at Ohio State in 1991 arriving from University of Southern California where he received his Ph.D. He gained his BS and MS from Peking University.

Two Careers Recognized by the National Science Foundation

This year, two junior faculty members received the respected National Science Foundation (NSF) Faculty Early Career Development (CAREER) Award. This award supports junior faculty who exemplify the role of teacher-scholars by combining outstanding research, excellent education, and integrated education and research. These make the 26th and 27th CAREER awards earned by members of the CSE faculty while at The Ohio State University.

Dr. Luis Rademacher was given the CAREER award for his work in computer theory.

Rademacher is currently focusing on the analysis and exploration of data, including classification, inference, and retrieval. Generally this involves the extraction of features that are relevant to a particular goal. In the design of algorithms for the analysis and exploration of data, feature extraction techniques act as basic building blocks or primitives that can be combined to model complex behavior using a variety of tools. Data rarely satisfies the precise assumptions of these models and feature extraction tools, and combining these tools amplifies errors. Luis is tackling the challenging task of designing new algorithms that are robust against noise and can be combined as building blocks while keeping the error propagation under control.

Dr. Rademacher came to CSE in 2009 after doing post-doctorate research at Georgia Tech. In 2007, he received his Ph.D. in Applied Mathematics from Massachusetts Institute of Technology. Prior to that he received from the Universidad de Chile, Santiago, Chile, a Mathematical Engineering Title (Masters Equivalent) and a Bachelor in Engineering Sciences, Mathematics.

Dr. Christopher Stewart of the Systems area is the second person receiving a CAREER.

Currently, Professor Stewart studies the responsiveness, cost effectiveness, and carbon footprint for next-generation cloud computing systems. Most systems today excel in only one of these dimensions, often at the expense of the others, risking the long term economic and environmental sustainability of cloud computing. Professor Stewart's research employs performance modelling and autonomic computing to prototype cloud systems that are sustainable, scalable, and high performance.

In his present project, Greening as a Service, Professor Stewart addresses a common issue facing cloud systems: dirty, carbon-intensive energy is cost effective but not environmentally sustainable. Greening as a Service exposes this issue to end users, allowing them to route requests through sustainable datapaths. The challenges are to track datapaths across multiple geographically distributed datacenters, move them to clean energy (e.g., via carbon offsets), and keep response times and costs relatively low. Professor Stewart has set up https://www.datagreening.com, a prototype greening service that powers email with clean energy. Through this service, he hopes to gather data on the carbon footprint of popular email providers while providing a useful service to hundreds of users.

Professor Stewart is the Editor of IEEE Sustainable Computing Register. He received his Ph.D. from the University of Rochester in 2008 and attended Morehouse College in Atlanta, Georgia for his undergraduate degree.

Staff Member's Service Recognized by University

On Friday, April 11, 2014, Carrie Stein was presented with the University Distinguished Staff Award. In recent years, Carrie has received the College Distinguished Staff Award as well as several Outstanding Service Awards from the CSE department.

The Distinguished Staff Award at The Ohio State University is a very prestigious honor especially considering there are only twelve staff members who receive this award per year. The award "recognizes staff members, who have had five years of continuous service, for exceptional accomplishments, leadership, and service to the university community by significantly improving or enhancing the quality of work life in ways that make a substantial difference for their colleagues; contributing to outstanding and sustained improvements in customer services; and developing creative solutions to problems that result in significantly more effective and efficient university operations."

The CSE department has significantly enhanced its research activities since Carrie was hired as the Grant Funds Administrator in 2005. She plays a critical role in the management of funded projects by keeping the faculty informed of the many funding sources in the country and assisting faculty with the writing and submitting of proposals. Her above and beyond attitude extends to providing support for faculty search and alumni relations along with the addition of being the writer/editor of the CSE Buckeye Blog.

In the Faculty nomination letters, Carrie was praised for her excellent performance as follows: "Carrie has universal trust among the CSE faculty with her positive attitude and hard work ethic; she is a creative, diligent, and enthusiastic person, completely dedicated to her work." Dr. Xiaodong Zhang, the CSE department chair, describes her thusly: "With her efficiency, effectiveness, initiative, enthusiasm, effort, and a genuine interest in helping others, she has created a high standard for those around her to follow."

College Awards Faculty for Mentoring and Research

Ness Shroff, right, posed with Randy Moses, Associate Dean for Research.

One of the first Faculty Mentoring Awards for the College of Engineering was given to **Dr. Ness Shroff**. The award, just established in 2013, is presented to an individual faculty member in the College of Engineering for demonstrated excellence in the mentoring of one or more early-career faculty members within the College.

Dr. Radu Teodorecsu received a 2013 College of Engineering Lumley Research Award. The award, established by John H. and Mildred C. Lumley, recognizes the research contributions and productivity over the last five years of faculty and research scientists.

Radu Teodorescu (right) is congratulated by Jennifer Cowley Associate Dean for Academic Affairs and Administration.

Faculty Promotion

Congratulations may also be given to **Dr. Radu Teodorescu** for his promotion to Associate Professor.

OSU Game Design Program Ranked #15 in Nation

The Ohio State University has earned a #15 ranking on The Princeton Review's recently published list saluting the best graduate schools to study video game design for 2014.

Compiled by The Princeton Review, one of America's best-known education and admission services companies, the 2014 list names 25 graduate schools in rank order (1 to 25).

The Princeton Review chose the schools based on a survey it conducted in Fall 2013 of 150 programs at institutions offering video game design coursework and/or degrees in the United States, Canada, and some countries abroad.

The company's 50 question survey asked schools to report on a range of topics, from academic offerings

and faculty credentials to graduates' employment and professional achievements. Among the criteria The Princeton Review weighed to make its selections: school curriculum, faculty, facilities, and infrastructure, plus career services and technology. The Princeton Review developed its "Top Schools To Study Game Design" project in 2009 with assistance from a national advisory board that helped design the survey instrument and methodology. Board members included administrators and faculty from respected game design programs, and professionals from some of the top gaming companies.

CSE Game Design Team at Games for Change

A team of CSE game designers, led by **Cheng Zhang**, made the finals in the Games For Change $25,000 Shoot for the Moon game design competition. The competition is held in partnership with the Schusterman Philanthropic Network. Founded in 2004, Games for Change facilitates the creation and distribution of social impact games that serve as critical tools in humanitarian and educational efforts.

The Moon Experience is an interactive and immersive virtual reality system based on the historic Apollo Program (1961-1972). The goal of this project is to demonstrate how to create an effective learning experience in a virtual space, which would otherwise be impossible to realize in the real world.

IBM's Watson to Share Knowledge with Buckeyes

Beginning in Autumn 2014, students in the Knowledge-Based Systems Capstone course will have access to the IBM Watson Cognitive Computing Cloud Architecture for Natural Language Question Answering. This is the same technology that underlies the Watson Jeopardy! Champion. Ohio State is one of seven schools granted this unique opportunity.

Accessing Watson's cloud, student teams will program to develop prototype applications and business plans using the fields of retail, travel or health-care for the structure. Examples might be a personalized shopping application or simplified applicant-screening for clinical drug trials. The hope is that the students' work will teach Watson a means to analyze documents more deeply so the machine can make improved connections people make instinctually from a natural language context.

Singapore Summer for Fuhry

Dave Fuhry, a CSE Ph.D. student, was awarded an NSF East Asia and Pacific Summer Institutes for U.S. Graduate Students (EAPSI) Fellowship Award to do research in Singapore in summer 2013. He worked with Professor Ee-Peng Lim who heads the Living Analytics Research Center (LARC) at Singapore Management University in Singapore.

The title of their work is "Interactive Visualization of User Communities and Interests in Social Networks," and it is based on finding groups of people in social networks with commonalities, such as what they write and/or what places they visit, and visualizing those groups and the relationships between them. Their work will allow an exploring user to specify whether they are fully, partially, or not at all interested, in each group and restructure the group configuration to match the specified "soft" interest thresholds. The restructured grouping is presented to the user in an intuitive dynamic visualization interface which can be again refined based on user preference. This work bridges both Dave's work in Ohio State's CSE Data Mining Lab — directed by his advisor Srinivasan Parthasarathy— on rapid visual and interactive data mining, and LARC's strength in analysis of social network groups through topic modeling.

Grad. Y. Wang Named Ohio State Presidential Fellow

Yuxuan Wang, a CSE Graduate student, received an Ohio State University Presidential Fellowship, the most prestigious award given by the graduate school. Yuxuan is a Ph.D. candidate working with Professor
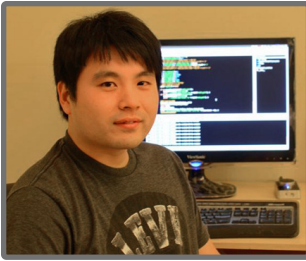
DeLiang Wang. Yuxuan's work focuses on developing machine learning techniques applied to the speech separation problem, also known as the cocktail party problem. Additionally, Yuxuan is interested in robust automatic speech recognition and optimization.

The goal of Yuxuan's research is to improve the performance of speech separation systems in adverse environments by integrating spectrotemporal structures of speech into learning algorithms. The fellowship will fund 12 months of his study towards the completion of a doctoral dissertation.

Prior to joining Ohio State, Yuxuan earned an undergraduate degree in Network Engineering from Nanjing University of Posts and Telecommunications, China.

Undergrad LeDonne receives DoD Scholarship

Jeremy LeDonne, a CSE, math, and electrical engineering triple major, was awarded the Information Assurance Scholarship from the Department of Defense (DoD). This scholarship is for individuals with specializations in information assurance, which focuses on defending critical systems and infrastructures from cyber threats and attacks. The scholarship will allow Jeremy to pursue his interests in computer security and artificial intelligence. Jeremy was eligible for this award because The Ohio State University is designated National Center of Academic Excellence in Information Assurance Education.


Student Becomes Apache Committer

Yin Huai has been selected to become a software committer for the data warehouse software Hive project sponsored by the Apache Software Foundation. This is a high recognition to Yin's technical capability and his contributions to Hive. Yin has contributed multiple software patches to Hive. The major effort he has recently made is to merge YSmart to Hive, significantly improving the productivity of data processing. YSmart is an SQL-to-MapReduce translator with powerful optimizations.

Yin is a co-author of the YSmart paper that received the Best Paper Award at the 2011 International Conference on Distributed Computing Systems. Being a committer, Yin will have a high responsibility for the future direction, innovation, and quality of Apache Hive.

Apache Hive is a production open source software for big data analytics, which has been widely used in major organizations, including Facebook, LinkedIn, Microsoft, Netflix, and Taobao. Yin Huai is a Ph.D. candidate under supervision of Professor Xiaodong Zhang, working on data management in distributed systems.

Visualization Team Earns Prize
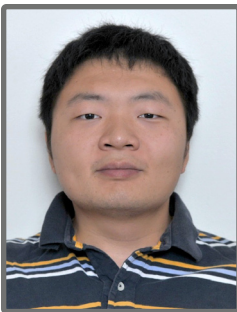
Qihang Li, CSE Ph.D. candidate, won the 2013 IEEE Scientific Visualization Contest. The goal of this year's contest is to develop new visualization methods for exploring the organization and function in a developing mouse brain. His team proposed an interactive visual analytic system based on Allen-Developing-Mouse-Brain-Atlas data to enable clear and insightful observations of the spatiotemporal patterns of gene expression in the mouse brain development. Qihang is co-advised by Kun Huang and Raghu Machiraju.

CAREER Earned by Alum

Timothy Miller, (Ph.D. '12) a professor at Binghamton University, was recently awarded the NSF Faculty Early Career Development (CAREER) award.

Miller's research focuses on CPU, GPU, and memory architectures that are robust to the challenges of today's ever-shrinking transistors, such as process variation, circuit aging, hard faults, and soft errors. Additionally, Miller is interested in open-architecture GPU research infrastructure with simulator, compiler, and synthesizable logic. The success of Miller's research efforts will lead to a substantial reduction in energy wasted by semiconductor devices for the purpose of improving battery life, environmental impact, and operating costs. It will also encourage continuous self-adjustment and adaptation across an array of computing technologies.
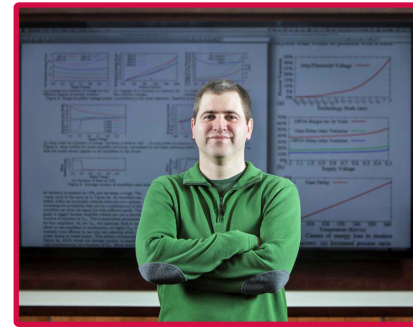
Alum Receives COE Recognition

Ray Harishankar (MS '90) received a The Ohio State University College of Engineering Distinguished Engineering Alumnus Award. This award recognizes "distinguished achievement on the part of alumni in the field of engineering or architecture by reason of significant inventions, important research or design, administrative leadership, or genius in production." Harishankar received this honor for his work at IBM Research and Software divisions in making significant contributions in the area of asset strategies, cloud computing, service oriented architecture, actionable business architecture, reference architectures, enterprise technology architectures, and creation of scalable architecture solutions. Ray is also actively engaged with clients across multiple industries and has developed a recent focus on Smarter Cities.

Ray Harishankar (left) with Lisa Abrams, Interim Director of Diversity/ Outreach of the COE Diversity and Outreach.

Ray, who joined IBM in 1999, is an IBM Fellow (2006) and serves as vice president of technology and innovation within IBM's Global Business Services. Since 2003, Ray has received three Outstanding Technical Achievement Awards within IBM. Ray has played important roles in both external industrial advisory committees of the Ohio State College of Engineering and the Department of Computer Science and Engineering, and has been instrumental in Ohio State- IBM collaborations on big data R&D projects. Ray was named the 2009 Asian American Engineer of the Year by the Chinese Institute of Engineers USA.

NIH Recognizes Alum's Research

Kishore Mosaliganti (Ph.D. '08) has been awarded a prestigious National Institute of Health (NIH) K Award for his work "In Toto Analysis of Tissue Mechanics During Vertebrate Ear Development." The project explores the origin and role of cellular and tissue forces in embryonic development.

Dr. Mosaliganti is working as a research fellow in the Department of Systems Biology at Harvard Medical School. His research is on microscopy image analysis topics and, currently, is working with a team of computational scientists to develop a software package called GoFigure2.

Alum Named CSAB Fellow

Allen Parrish (M.S. '87, Ph.D. '90), Computer Science Professor and Director of the Center for Advanced Public Safety at The University of Alabama, was recognized as a Fellow of the Computing Sciences Accreditation Board (CSAB), a society for accreditation of degree programs in computer science, information systems, software engineering, and information technology.

Dr. Allen Parrish's research interests include law enforcement, homeland security and traffic safety informatics; software engineering; data mining; federated database systems; software testing and verification; software specification; and programming languages and technologies.

DoE Early Career Award Granted to 2008 Alum

Sriram Krishnamoorthy (Ph.D. '08) was recently awarded $2.5 million over five years as part of the 2013 Department of Energy Early Career Research Program Award.

Sriram is a research scientist with Pacific Northwest National Laboratory. He will continue his work on Concrete Ingredients for Flexible Programming Abstractions on Exascale Systems. His research will fundamentally transform exascale programming models and runtime systems for scientific applications via the design and characterization of algorithms that automate concurrency, data movement, and resilience management. Exascale computing will provide a thousand-fold increase in computing capability that can be applied toward solving crucial energy and environmental problems.

Intel Awards Alumnus with Highest Honor

Dr. Karthikeyan Vaidyanathan (Ph.D. '08) is a research scientist in Parallel Computing Labs, Intel, Bangalore. He received an Intel Achievement Award for his contributions in Top500 and Green500, and for delivering Intel's first manycore product (Intel Xeon Phi) to market and exceeding all expectations at SuperComputing 2012 in Salt Lake City, Utah. The Intel Achievement Award is Intel's highest recognition bestowed on its employees.

Karthik's research interests include high performance computing, high-speed interconnects & storage, performance optimizations in parallel computer architecture. He has published more than 10 papers in conferences and journals related to these areas.

Best Paper & Poster Awards Earned

Rong Shi, CSE PhD candidate, was awarded a Best Student Paper Award at the IEEE Cluster '13 Conference alongside his co-authors **Sreeram Potluri**, Khaled Hamidouche, Xiaoyi Lu, Karen Tomko, and **DK Panda**. His paper, entitled *A Scalable and Portable Approach to Accelerate Hybrid HPL on Heterogeneous CPU-GPU Clusters*, proposes a simple yet elegant approach for modern clusters to fully utilize all computing resources including all CPU nodes and GPU nodes.

Shengbo Chen, **Tarun Bansal**, Yin Sun, **Prasun Sinha**, and **Ness Shroff** were awarded best paper at WiOPT 2013. The paper, *Life-Add: Lifetime Adjustable Design for WiFi Networks with Heterogeneous Energy Supplies,* discusses a solution to decreased battery performance on handheld devices caused by WiFi usage. The paper proposes "Life-Add"—a Lifetime Adjustable design for WiFi networks. Using this technology, a device turns off its radio to save energy when the channel is sensed to be busy, and sleeps for a random time period before sensing the channel again.

Yinxuan Shi, with **Roger Crawfis** received the Best Paper Award for Design and Serious Games at the Conference on the Foundations of Digital Games 2013. The paper, *Optimal Cover Placement Against Static Enemy Positions* developed a framework and solution for placing objects within a scene that the player could use to seek refuge. The concept of optimal paths through the scene allowed for optimizing towards a desired "fun" profile (e.g. easy then surprise hard, several moments of intensity, etc.).

Sai Prathyusha Peddi, CSE MS student, received the Best Poster Award at the ACM/IEEE International Conference on Cyber-Physical Systems. Her poster, *Real-Time Adaptive Signaling for Isolated Intersections* focuses on how to bound the amount of lost time, distance, and/or fuel that could be saved if traffic-signal control algorithms used full knowledge of the positions, velocities, and accelerations of vehicles in the vicinity of the intersection. This information about the vehicles would be available if already feasible vehicle-to-infrastructure communications were fully implemented.

Wenjie Zeng, **Anish Arora**, and **Kannan Srinivasan** were awarded the Best Paper Runner Up-Spots Track for their paper *Low-Power Counting via Collaborative Wireless Communications*, at the 12th ACM/IEEE Conference on Information Processing in Sensor Networks. The core idea is to exploit simultaneous communications in 802.15.4 radios to parallelize a node's calculation of the number (or set) of its neighbors where some condition of interest holds. The paper presents two methods for the calculation, thereby enabling low power estimation of metrics which are frequently used in wireless sensor networks.

Dr. Igor Malkiman, Sr. Lecturer, Passes Away

One of CSE's most respected Senior Lecturers, **Dr. Igor Malkiman** passed away, Sunday, June 1st, 2014.

Dr. Malkiman emigrated from Russia to escape difficult circumstances and built a new life here in Columbus, Ohio. He worked many years at Qwest (now Century Link) and taught CSE's numerical analysis/linear algebra course starting in 1996. More recently, he made great contributions to the Capstone program, including teaching the Capstone Design: Software Applications course. Malkiman received a 2014 Outstanding Teaching Award.

Dr. Rajiv Ramnath said of his colleague, "Igor was one of the most caring and helpful educators I have seen. His students will never forget his stern voice and big heart."

He will be missed by his colleagues and students alike.

Mayya Malkiman (right), daughter of Igor Malkiman, accepts his Outstanding Teaching Award in his absence. The certificate is being presented by Bruce Weide.

Anaushka Narayanan, daughter of Arun Narayanan, is entertained by the comics in the Ohio Union Cartoon Room, location of the 18th Annual CSE Awards banquet.

Awaiting the start of the banquet are Performance Analysis research winner, Sreeram Potluri (second from right) with his parents, Dr. Gangadhara Rao Potluri (front left) and Dr. Sarada Potluri, (second left) and his advisor, D.K. Panda (right).

2013-2014 CSE DEPARTMENTAL AWARDS

Scholarships

Atharva Kaushik Scholarship
  Derek David DiCillo
  Alan Ashton Thornburg

**Central Ohio Chapter of Association
of Computing Machinery {ACM}**
  Caitlin Anne Van Gundy

**Ernest William Leggett, Jr. Scholarship
The Leggett Family Award**
  David Ryan Siegal
  Zachary David Wein
  David Michael Wright

Matt J. Desch & Ann M. Murphy Award
  Philip Colin Allen
  Zakariya A. Bainazarov

**Steve R. and Sarah O'Donnell
Computer and Information Science Fund**
  Adam Joseph Wheeler
  Blake Edward Williams

The O'Connell Family Award
  Alexandra Marie Beigel
  Kaitlyn Elizabeth Spehr

Raytheon Corporation
  Brandon Timothy Mills
  Qi Zhou

Wayne Clark Undergraduate Scholarship
  Maxwell Roseman

CSE Undergraduate Scholarships
  Olga Lucia Benson
  Glen Lee Gainer
  Lisa Lau
  Protiva Rahman
  Charles Graydon Reitz
  Brandon F. Rogers
  Grace L. Wannermacher
  Michael Alan Zoller

Department Awards

**B. Chandrasekaran & Sandra Mamrak
Graduate Fellowship**
  Dr. Fengtao Fan
  Dr. Arun Narayanan

Mike Liu Graduate Fellowship Award
  Tarun Bansal
  Yin Huai

**Wael Bahaa-El-Din Scholarship on Performance
Analysis of Computer Systems**
  Sreeram Potluri

Eleanor Quinlan Memorial Award
  Robert Finn

Outstanding Teaching Award
  Dr. Igor Malkiman
  Dr. Ken Supowit

Outstanding Service Award
  Aaron Jenkins
  Dr. Srinivasan Parthasarathy

Chair's Service Awards
  Christa Yandrich

**Joel and Ruth Spira Excellence
in Teaching Award
from Lutron Electronics**
  Dr. Han-Wei Shen

Founders Recognitions
  Dr. Marshall Yovits

Cindy Heckman from Raytheon corporation presents a scholarship to Brandon Mills.

In photo to the left Jim Cates of the Industry Advisory Board presents a Leggett Award to David Michael Wright. Above, Bruce Flinchbaugh, also of the Board congratulates scholarship recipients Alan Thornburg (left) and Derek DiCillo (right).

Leon Wang gives his advisee, Arun Narayanan, his certificate for outstanding research.

NEW FACULTY HIRES FOR 2014-2015

In January 2015, Dr. Yang Wang and Dr. Yinqian Zhang will join CSE as tenure track and in Autumn 2014, and Dr. Louis-Noel Pouchet will become a Research Assistant Professor.

Dr. Yang Wang joins CSE after receiving his Ph.D. from University of Texas at Austin where his advisors were Drs. Mike Dahlin and Lorenzo Alvisi. His research interests are in Distributed Systems and Fault Tolerance. In particular, his research explores new ways to get extremely high levels of reliability for modern scalable storage systems with reasonable costs. His future work will include investigations into new consistency, performance, and security issues in large-scale distributed systems. Dr. Wang received the Google Ph.D. Fellowship in Distributed Computing for 2013.

Dr. Yinqian Zhang, our second new faculty member, was advised by Professor Michael Reiter at the University of North Carolina, Chapel Hill. His primary research interests are computer systems and security. He also has a keen interest in user authentication and password security. His thesis work revolves around cloud computing security, which particularly aims to identify and address the threats of side channels in multi-tenant public clouds. A Google U.S./Canada Fellowship in Security supported Dr. Zhang's most recent endeavors. After joining the faculty, Dr. Zhang will continue his research in cyber security, with a focus on the security of cloud, mobile and distributed systems.

Returning to CSE after a stint at the University of California, Los Angeles, **Dr. Louis-Noel Pouchet** is looking forward to continuing his work with Dr. P. Sadayappan's group in CSE, on high-performance computing and polyhedral compilation techniques. Dr. Pouchet's research includes software and hardware customization techniques for high-performance / low-energy execution of scientific programs. He is also the author of several software packages for polyhedral compilation such as the PolyBench test suite, and the PolyOpt and PoCC compilers. Dr. Pouchet received his Ph.D. in 2010 from INRIA / University of Paris-Sud, France, and his research is currently supported in part by the US National Science Foundation, the US Department of Energy, and Intel.

Above, a panoramic view of students participating in Ohio State's first Hack-a-thon, a 24-hour programming event culminating in project presentations and a contest. First prize went to Ross Johnstal and Ritvik Vasudevan (right) for their project Atmosphere: Music your friends like. This app allows the user to search through a group of friends' musical tastes based on their "likes" at a specific social media site. The app then creates a playlist based on the musical likes of the group as a whole, not just those of the user. In the picture, Ross and Ritvik are posed with their prizes, a pair of Parrot AR Quadcopters. Prizes were paid for by the corporate sponsors, Google, Hortonworks and Teradata.

GRANT FUNDING 2013-2014

New grants received in 2013-2014 Year

In order by name of CSE investigator. CSE members are in bold.

Legend:
CSE Researcher

Funding Source
Grant Title
PI: Principal Investigator
Co-PI: Collaborators (when applicable)
Term of grant   Total funding

Gagan Agrawal

Department of Energy Small Business Innovation Research (DOE-SBIR) (with RNET Technologies)
A MapReduce-like Data-Intensive Processing Framework for Native Data Storage and Formats
PI: **Gagan Agrawal**
02/15/14 – 11/14/14 $48,000

National Science Foundation (NSF)
SHF: Small: Advanced Compiler Techniques for Meeting Fault Tolerance Needs of HP Systems
PI: **Gagan Agrawal**
07/01/13 – 06/30/16 $499,695

National Science Foundation (NSF)
SI2-SSE: Collaborative Research: Software Elements for Analysis and Dissemination of Large Scale Scientific Data
PI: **Gagan Agrawal**
09/01/13 – 08/31/16 $400,000

Jim Davis

Air Force Research Laboratory
CATR Task 0006
PI: **James W. Davis**
11/16/10 – 9/28/14 $139,893

Tamal Dey

National Science Foundation (NSF)
AF: Small: Topological Data Analysis for Big and High Dimensional Data
PI: **Tamal Dey**
09/01/13 – 08/31/16 $496,321

Eric Fosler-Lussier

National Science Foundation (NSF)
CI-ADDO-NEW: Collaborative research: The Speech Recognition Virtual Kitchen
PI: **Eric Fosler-Lussier**
9/1/13 – 8/31/16 $382,082

DK Panda

Cray, Inc.
PMI2 Support in MVAPICH2 and Tight Integration with SLURM
PI: **DK Panda**
1/1/14 – 12/31/14 $182,820

Mellanox Technologies
Research on High Performance and Scalable MPI over InfiniBand.
PI: **DK Panda**
8/22/12 – 8/14/13 $190,585

National Science Foundation (NSF)
CSR: EAGER: HPC Virtualization with SR-IOV
PI: **DK Panda**
10/1/13 – 9/30/14 $98,291

Feng Qin

National Science Foundation (NSF)
SHF: Small: Collaborative Research: Towards Automated Model Synthesis of Library and System Functions for Program-environments and Co-analysis
PI: **Feng Qin**
9/1/13 – 8/31/15 $150,000

Luis Rademacher

National Science Foundation (NSF)
CAREER: Transforming Data Analysis via New Algorithms for Feature Extraction
PI: **Luis Rademacher**
7/1/14 – 6/30/19 $464,191

Rajiv Ramnath

National Science Foundation (NSF)
EXP: GeoGames – Online Map Games for Teaching and Learning through a Real World Spatial Perspective
PI: Ola Ahlqvist (OSU Dept. of Geography)
Co-PIs: **Rajiv Ramnath**
10/01/13 – 09/30/14 $249,999

OCLC Online Computer Library Center, Inc.
Evaluating Quality of Open Access Journals
PI: **Rajiv Ramnath**
Co-PI: **Jay Ramanathan**
1/1/14 – 8/31/14 $45,000

Astute Technologies
Research in Data Mining and Information Retrieval
PI: **Rajiv Ramnath**
9/1/13 – 9/1/14 $42,000

Jay Ramanathan

Nationwide Mutual Insurance Company
Information Retrieval Tools for Gathering Insights from Help Desk Information
PI: **Jay Ramanathan**
Co-PI: **Rajiv Ramnath**
1/1/14 – 12/31/14 $52,000

Nasko Rountev

National Science Foundation (NSF)
SHF: Small: LeakDroid: Exposing Leaks and Jank in Android Applications
PI: **Nasko Rountev**
09/01/13 – 08/31/16 $465,133

P. Sadayappan

Pacific Northwest National Lab (Department of Defense subcontract)
Integrated Compiler and Runtime Autotuning Infrastructure for Power, Energy and Resilience
PI: **P. Sadayappan**
8/9/13 – 8/8/15 $240,000

Prasun Sinha

National Science Foundation (NSF)
NeTS: Medium: Collaborative Research: Leveraging Physical Layer Advances for the Next Generation Distributed Wireless Channel Access Protocols
PI: **Prasun Sinha**
Co-PI: **Srinivasan Parthasarathy**, **Kannan Srinivasan**
09/01/13 – 08/15/16 $745,000

Neelam Soundarajan

National Security Agency
Department of Defense (DOD) Information Assurance Scholarship Program
PI: **Neelam Soundarajan**
9/6/13 – 9/5/14 $35,075

Chris Stewart

National Science Foundation (NSF)
CAREER: Carbon Footprint Modeling and Elastic Caching for Greening Services
PI: **Christopher Stewart**
1/1/14 – 12/3118 $462,813

National Science Foundation (NSF)
CSR: SHF: SMALL: Efficient, low-latency networked storage
PI: **Christopher Stewart**
10/1/413 – 9/30/16 $400,000

National Science Foundation (NSF)
(PSC) The 6th workshop on Diversity in Systems Research (Diversity '13)
PI: **Christopher Stewart**
10/1/13-9/30/14 $4,000

DeLiang (Leon) Wang

Starkey Hearing Technologies
A Supervised Learning Approach to Combat Reverberation Effects in Speech Understanding
PI: **DeLiang Wang**
06/01/13 – 05/31/14 $55,000

Yusu Wang

National Science Foundation (NSF)
AF: Small: Geometric Data Processing and Analysis via Light-weight Structures
PI: **Yusu Wang**
06/01/13 – 05/31/14 $481,393

Xiaodong Zhang

Samsung Electronics Co, Ltd.
Embracing SSDs with Effective System Interfaces for High Performance and High Reliability of Data Processing
PI: **Xiaodong Zhang**
01/15/14 – 01/14/15 $100,000

Grants Established Prior to July 1, 2013

Gagan Agrawal

National Science Foundation (NSF)
DC: Small: Data Intensive Computing Solutions for Neuroimage Analysis
PI: **Gagan Agrawal**
Co-PI: **Raghu Machiraju**
9/15/09-8/31/13 $488,000

RNET Technologies
Simplified Access to Massive Climate Modeling Data Sets to Support End Users
PI: **Gagan Agrawal**
02/19/13 – 11/18/13 $48,000

Anish Arora

Air Force Research Laboratory
CATR Task 0006
PI: **Anish Arora**
11/16/10 – 11/19/14 $125,000

National Science Foundation (NSF)
PC3: Collaborative Research: Wireless Sensor Networks for Protecting Wildlife and Humans
PI: **Anish Arora**
10/01/11 – 08/31/14 $262,212

Raytheon BBN Technologies
GENI Educational Kits for Wireless Sensor Networks
PI: **Anish Arora**
Co-PI: **Rajiv Ramnath**
10/01/11 – 09/30/14 $204,884

Mikhail Belkin

National Science Foundation (NSF)
RI: Small: Algebraic and Spectral Structure of Data in High Dimension
PI: **Mikhail Belkin**
7/1/11 – 06/30/14 $450,000

Public Works and Government Services, Canada
Compendium Interface
PI: **Mikhail Belkin**
5/10/13 – 8/31/13 $28,459

Michael Bond

National Science Foundation (NSF)
CAREER: Practical Language and System Support for Reliable Concurrent Software
PI: **Michael Bond**
3/1/13 – 2/28/18 $535,143

National Science Foundation (NSF)
CSR: Small: Making Software Transactional Memory More than a Research Toy
PI: **Michael Bond**
9/1/12 – 8/31/15 $400,000

Roger Crawfis

Patient Centered Outcomes Research Institute Pilot Grants Program
A Low-cost Virtual Reality Gaming Platform for Neurorehabilitation of Hemiparesis
PI: Lynne Gauthier (OSU Dept. of Physical Medicine and Rehabilitation)
Co-PI: **Roger Crawfis**, Linda Lowes (OSU Health and Rehabilitation Services), Lise Worthen-Chaudhari (OSU Dept. of Physical Medicine and Rehabilitation)
6/1/12-5/31/14 $653,014

James Davis

Air Force Research Laboratory
CATR Task 0006
PI: **James Davis**
11/16/10 – 9/28/14 $343,000

Tamal Dey

National Science Foundation (NSF)
AF: Medium: Collaborative Research: Optimality in Homology – Algorithms and Applications
PI: **Tamal Dey**
08/01/11 – 07/31/15 $352,896

National Science Foundation (NSF)
AF: Small: Analyzing Spaces and Scalar Fields via Point Clouds
PI: **Tamal Dey**
Co-PI: **Yusu Wang**
08/01/11 – 07/31/14 $499,761

National Science Foundation (NSF)
MCS: Reconstructing and Inferring Topology and Geometry From Point to Point Cloud Data
PI: **Tamal Dey**
Co-PI: Dan Burghelea (OSU Dept. of Mathematics)
9/1/09-8/31/13 $462,000

Brian Kulis

National Science Foundation (NSF)
RI: Small: Hard Clustering via Bayesian Nonparameters
PI: **Brian Kulis**
6/1/12 – 5/31/15 $439,689

Eric Fosler-Lussier

National Board of Medical Examiners
Virtual patients simulations to assess data-gathering and clinical reasoning
PI: Douglas R. Danforth (OSU Dept. of Obstetrics & Gynecology)
Co-PI: **Eric Fosler- Lussier**
7/1/12 – 6/30/13 $149,861

National Institutes of Health (NIH)
National Library of Medicine
An Information Fusion Approach to Longitudinal Health Records
PI: Albert Lai (OSU Dept. of Biomedical Informatics)
Co-PI: **Fosler- Lussier**, Peter Embi (OSU Dept. of Biomedical Informatics)
9/1/12 – 8/31/17 $1,536,793

Institute of Education Sciences
Reducing Special Education/Reading Risk Through an Oral Reading Fluency Intervention for Urban Learners
PI: Gwendolyn Cartledge (OSU College of Education & Human Ecology)
Co-PI: **Eric Fosler-Lussier**, **Rajiv Ramnath**, Kathleen Gallant (OSU College of Education & Human Ecology), Ralph Gardner III (OSU College of Education & Human Ecology)
7/1/12 – 6/30/14 $479,053

International Computer Science Institute (ICSI) (Intelligence Advanced Research Projects Activity (IARPA) subcontract)
SWORDFISH: Spoken Wordsearch with Rapid Development and Frugal Variant Subword Hierarchies
PI: **Eric Fosler-Lussier**
03/05/12 – 06/30/14 $819,764

Raghu Machiraju

National Science Foundation (NSF)
G&V: Medium: Collaborative Research: Large Data Visualization Using an Interactive Machine Learning Framework
PI: **Raghu Machiraju**
Co-PI: **Han-Wei Shen**
6/1/11 – 5/31/15 $542,002

DK Panda

Dept. of Engergy (DOE) STTR Phase II (with RNET Technologies)
HPC Application Energy Measurement and Optimization
PI: **DK Panda**
02/15/12 – 02/14/14 $325,000

Mellanox Technologies
High Performance and Scalable Design of HDFS over InfiniBand
PI: **DK Panda**
8/15/12 – 8/14/13 $200,000

Mellanox Technologies, Inc
Research on High Performance and Scalable MPI over InfiniBand.
PI: **DK Panda**
4/4/04-8/14/13 $1,323,221

National Science Foundation (NSF)
CC-NIE Integration II: Innovations to transition a campus core cyberinfrastructure to serve diverse and emerging researcher needs
PI: Caroline Whitacre (OSU Dept. of Internal Medicine)
Co-PIs: **DK Panda**, Umit Catalyurek (OSU Dept. of Biomedical Informatics), Paul Schopis (Ohio Academic Resources Network (OARnet))
10/1/12 – 9/30/14 $987,019

National Science Foundation (NSF)
SHF:Large: Collaborative research: Unified run-time for supporting hybrid programming models on heterogeneous architecture
PI: **DK Panda**
Co-PI: Karen Tomko (Ohio Supercomputer Center)
7/1/12 – 6/30/15 $1,045,822

National Science Foundation (NSF)
SI2-SSI: Collaborative Research: A Comprehensive Performance Tuning Framework for the MPI Stack
PI: **DK Panda**
Co-PI: Karen Tomko (Ohio Supercomputer Center)
6/1/12 – 5/31/15 $1,251,374

National Science Foundation (NSF)
Topology-Aware MPI Collectives and Scheduling for Petascale Systems with InfiniBand
PI: **DK Panda**
09/15/06-09/30/13 $920,000

NVIDIA Corporation
High-Performance MPI Design for InfiniBand Clusters with GPUs
PI: **DK Panda**
07/01/11 – 03/31/13 $115,237

University of Texas at Austin (National Science Foundation (NSF) subaward)
Enabling, Enhancing and Extending Petascale Computing for Science and Engineering
PI: **DK Panda**
3/1/13 – 2/28/17 $600,000

University of Texas at Austin (National Science Foundation (NSF) subaward)
World-Class Science Through World Leadership in HPC
PI: **DK Panda**
10/1/10 – 9/30/13 $172,616

Srinivasan Parthasarathy

National Science Foundation (NSF)
CCF: EAGER: Collaborative research: Scalable graph mining and clustering on desktop supercomputers
PI: **Srinivasan Parthasarathy**
9/1/12 – 8/31/13 $75,000

National Science Foundation (NSF)
Collaborative Research: Serious Play in Synthetic Worlds: Social Media Enhanced Organized Sensemaking in Emergency Response
PI: **Srinivasan Parthasarathy**
09/01/11 – 08/31/14 $270,000

National Science Foundation (NSF)
Global Graphs: A Middleware for Data Intensive Computing
PI: **Srinivasan Parthasarathy**
Co-PI: **P. Sadayappan**
9/1/09-8/31/13 $515,997

National Science Foundation (NSF)
SHF: Small: Collaborative Research: Elastic fidelity: Trading-off ComputationalAccuracy for Energy Reduction
PI: **Srinivasan Parthasarathy**
8/1/12 – 7/31/15 $182,000

Feng Qin

Hewlett-Packard
Exploring the Behavior of Modern Storage Systems under Failure
PI: **Feng Qin**
9/1/12 – 5/31/14 $35,000

National Science Foundation (NSF)
SHF: CSR: Small: Collaborative research: Automated model synthesis of library and system functions for program-environment co-analysis
PI: **Feng Qin**
9/1/12 – 8/31/13 $90,000

National Science Foundation (NSF)
CAREER: Building Immunity to Memory Management Bugs During Production Runs
PI: **Feng Qin**
3/1/10-2/28/15 $420,000

Rajiv Ramnath

Ohio Department of Health
Stage 1: Application for asthma management and education (AAME)
PI: **Rajiv Ramnath**
7/9/12 – 5/31/13 $34,000

National Science Foundation (NSF)
EXP: GeoGames – A Virtual Simulation Workbench for Teaching and Learning Through a Real-world Spatial Perspective
PI: Ola Ahlqvist (OSU Dept. of Geography)
Co-PIs: **Rajiv Ramnath**
10/01/11 – 09/30/13 $374,772

Uniformed Services University Health Sciences – Tri-Service Nursing
Effectiveness and Benefit of Two STI Prevention Delivery Methods for Military Women
PI: Nancy Ryan-Wenger (OSU College of Nursing)
Co-PI: Elizabeth Barker (OSU College of Nursing), Maria Palazzi (OSU Advance Center for Art & Design), **Rajiv Ramnath**, Victoria Von Sadovszky (OSU College of Nursing)
8/1/11 – 7/31/14 $660,959

Capstone Partners
Capstone Partnerships
PI: **Rajiv Ramnath**
1/1/11 – 12/31/14 $39,250

Jay Ramanathan

National Science Foundation (NSF)
II-EN: Infrastructure to support desktop virtualization experiments for research and education
PI: Prasad Calyam (Ohio Supercomputer Center)
Co-PI: **Jay Ramanathan**, Albert Lai (OSU Dept. of Biomedical Informatics)
6/1/12 -5/31/15 $396,311

Nationwide Mutual Insurance Company
Data Mining, Information Retrieval from Unstructured Data Streams
PI: **Jay Ramanathan**
Co-PI: **Rajiv Ramnath**
1/1/13 – 12/31/13 $200,000

Nasko Rountev

National Science Foundation (NSF)
SHF: Small: Algorithms for Dynamic Analysis of Run-time Bloat
PI: **Nasko Rountev**
9/15/10 – 8/31/13 $356,531

P. Sadayappan

Department of Energy (DOE)
A Fault-Oblivious Extreme Scale Execution Environment
PI: **P. Sadayappan**
9/1/10 – 8/31/13 $469,254

Department of Energy (DOE)
A Polyhedral TraNational Science Foundation (NSF)ormation Framework for Compiler Optimization
PI: **P. Sadayappan**
Co-PI: **Nasko Rountev**
9/1/10 – 8/31/13 $399,842

Department of Energy (DOE)
Domain Specific Language Support for Exascale
PI: **P. Sadayappan**
Co-PI: **Nasko Rountev**
9/1/12 – 8/31/15 $880,907

National Science Foundation (NSF)
Collaborative Research: An Environment for High-Productivity High-Performance Computing using GPUs/accelerators
PI: **P. Sadayappan**
9/15/09-8/31/13 $468,492

National Science Foundation (NSF)
Collaborative Research: Petascale Simulations of Quantum Systems by Stochastic Methods
PI: **P. Sadayappan**
9/1/09-8/31/14 $639,952

National Science Foundation (NSF)
Customizable Domain-specific Computing
PI: **P. Sadayappan**
Co-PI: **Nasko Rountev**
9/1/09-8/31/14 $749,998

National Science Foundation (NSF) (University of Illinois subaward)
Enhanced Intellectual Services- Direct PRAC support- Super Instruction Architecture for Petascale Computing
PI: **P. Sadayappan**
7/1/12 – 9/30/13 $34,597

National Science Foundation (NSF)
Large-Scale Computation of the Phonon Boltzmann Transport Equation
PI: Sandip Mazumder (OSU Dept. of Mechanical & Aerspace Engineering)
Co-PI: **P. Sadayappan**
09/15/12 – 08/31/15 $400,000

RNET Technologies
Scalable Multi-tiered CFD and CSD Codes for Kestrel
PI: **P. Sadayappan**
Co-PI: Jack McNamara (OSU Dept. of Mechanical & Aerspace Engineering)
1/1/13 – 12/31/14 $320,000

RNET (AFOSR STTR)
Highly-Scalable Computational-Based Engineering Algorithms for Emerging Parallel Machine Architectures
PI: **P. Sadayappan**
Co-PI: Sandip Mazumder (OSU Dept. of Mechanical & Aerspace Engineering)
01/01/12 – 12/31/14 $47,097

Han-Wei Shen

Department of Energy (DOE)
An Information Framework for Enabling Extreme-scale Science Discovery
PI: **Han-Wei Shen**
9/1/10 – 8/31/13 $462,095

Department of Energy (DOE)
Scalable data-management, analysis, and visualization (SDAV) institute
PI: **Han-Wei Shen**
02/15/12 – 02/14/17 $750,000

Department of Energy (DOE)
Very Large 3D Flow Field Visual Analysis
PI: **Han-Wei Shen**
10/28/10 – 8/31/14 $461,074

National Science Foundation (NSF)
G&V: Small: Collaborative Research: An Information Theoretic Framework for Large-scale Data Analysis and Visualization
PI: **Han-Wei Shen**
9/1/10 – 8/31/14 $292,147

Ness Shroff

Army Research Office: Multidisciplinary University Research Initiative
Multivariate Heavy-Tail Phenomena: Modeling and Diagnostics
PI: **Ness B. Shroff**
6/1/12 – 5/31/17 $600,000

Army Research Office: Multidisciplinary University Research Initiative
Stochastic Control of Multi-Scale Networks: Modeling, Analysis And Algorithms
PI: **Ness B. Shroff**
5/1/08 – 03/28/14 $6,456,625

Hewlett Packard
Energy and Labor Efficient Sensor Networking For Underground Data Acquisition
PI: **Ness B. Shroff**
Co-PI: Can Emre Koksal (Dept. of Electrical and Computing Engineering)
09/01/12 – 08/31/15 $300,000

National Science Foundation (NSF)
CT-ISG: Collaborative Research: Router Models And Downscaling Tools For Scalable Security Experiments
PI: **Ness B. Shroff**
10/1/08 – 9/30/12 $125,000

National Science Foundation (NSF)
NeTS-NECO: A new resource management paradigm for sensor networks with energy replenishment
PI: **Ness Shroff**
Co-PI: **Prasun Sinha**, Can Emre Koksal (OSU Dept. of Electrical and Computer Engineering)
9/1/08 – 8/31/13 $500,000

National Science Foundation (NSF)
Networking Technology and Systems (NeTS): Large: Collaborative Research: Foundations For Network Cooperation At Signal Scale
PI: **Ness B. Shroff**
07/01/10 – 06/30/15 $330,000

National Science Foundation (NSF)
Networking Technology and Systems (NeTS): Medium: Collaborative Research: Mobile Content Sharing: Networks: Theory To Implementation
PI: **Ness B. Shroff**
Co-PI: **Dong Xuan**
7/1/11 – 6/30/15 $628,946

National Science Foundation (NSF)
Networking Technology and Systems (NeTS) -Medium: Collaborative Research: Unifying Network Coding And Cross-Layer Optimization For Wireless Mesh Networks: From Theory To Distributed Algorithms To Implementation
PI: **Ness B. Shroff**
09/01/09 – 08/31/13 $350,000

National Science Foundation (NSF)
Toward Efficient and Distributed Cyber-Physical Systems Design for the Smart Electric Power Grid
PI: Cathy Xia (Dept. of Integrated Systems Engineering)
Co-PI: **Ness B. Shroff**
9/1/12 – 8/31/15 $396,222

Qatar University
Information Theory Enabled Secure Wireless Networking: Scaling Laws, Network Control, and Implementation
PI: Can Emre Koksal (Dept. of Electrical & Computer Engineering)
Co-PI: **Ness B. Shroff**
11/15/12-11/14/15 $279,890

Prasun Sinha

National Science Foundation (NSF)
EAGER: WideSpot: Enabling Predictable Wide-Area Coverage Over Scattered Hotspots
PI: **Prasun Sinha**
9/15/12 – 8/31/14 $100,000

National Science Foundation (NSF)
NeTS: Medium: Collaborative Research: Enabling Cellular Services over Unplanned Femto-Cell Deployments: From Theory to Implementation
PI: **Prasun Sinha**
6/1/12 – 5/31/15 $380,000

Paul Sivilotti

National Science Foundation (NSF)
CPS: Medium: Autonomous Driving in Mixed-traffic Urban Environments
PI: Ümit Özgüner
Co-PI: **Bruce Weide**, **Paul Sivilotti**, Ashok Kumar Krishnamurthy (OSU Dept. of Electrical and Computer Engineering), Füsun Özgüner (OSU Dept. of Electrical and Computer Engineering)
9/1/09-8/31/13 $1,296,683

Neelam Soundarajan

Department of Defense (DOD), National Security Agency
 Information Assurance Scholarship Program
PI: **Neelam Soundarajan**
8/22/12 – 8/21/13 $30,885

National Science Foundation (NSF)
CPATH T: NEWPATH: Nurturing, Through Entrepreneurship, IT World Leaders
PI: **Neelam Soundarajan**
Co-PIs: **Bruce Weide, Rajiv Ramnath, Dong Xuan, Han-Wei Shen**, Waleed Ali Muhanna (Fisher College of Business), Eylem Ekici (OSU Dept. of Electrical and Computer Engineering), Stephen Camp (Center for Entrepreneuship)
7/1/07 – 6/30/14 $622,822

Kannan Srinivasan

Department of Defense (DOD), National Security Agency
Building a Practical Wireless In-Band Full Duplex System Existing Awards
PI: **Kannan Srinivasan**
7/12/12 – 12/31/13 $722,011

National Science Foundation (NSF)
CAREER: Together We Rise: A Unified Multi-input Multi-output (MIMO) - Full Duplex Network Architecture
PI: **Kannan Srinivasan**
3/1/13 – 2/28/18 $546,604

Chris Stewart

National Science Foundation (NSF)
EAGER: Design and Implementation of a Renewable Adaptive Cluster
PI: **Chris Stewart**
7/1/12 – 6/30/14 $200,000

Radu Teodorescu

Defense Advanced Research Projects Agency (DARPA_
Parameter Variations at near Threshold Voltage: The Power Efficiency Versus Resilience Trade-off
PI: **Radu Teodorescu**
9/25/12 – 3/24/18 $941,240

National Science Foundation (NSF)
CAREER: An integrated treatment of voltage noise and process variability in many-core and GPU systems with microarchitectural solutions
PI: **Radu Teodorescu**
2/1/13 – 1/31/18 $520,000

National Science Foundation (NSF)
SHF: Small: GOALI: Addressing the Challenges of Parameter Variation in the Design of Ultra-low Power Chip Multiprocessors Using Near-threshold Technology
PI: **Radu Teodorescu**
Co-PI: Khalil Waleed (Dept. of Electrical and Computer Engineering)
7/1/11 – 06/30/15 $400,000

DeLiang (Leon) Wang

Air Force Office of Scientific Research (AFOSR)
Speech Segregation Based on Binary Classification
PI: **DeLiang Wang**
5/1/12 – 4/30/16 $932,284

Kuzer Co.

Air Force Office of Scientific Research Small Business Technology Transfer (AFOSR STTR)
An Auditory Scene Analysis Approach to Speech Segregation
PI: **DeLiang Wang**
01/01/12 – 12/31/13 $300,000

National Institutes of Health (NIH)
Speech Segregation to Improve Intelligibility of Noisy Speech
PI: **DeLiang Wang**
Co-I: Eric Healy (OSU Dept. of Linguistics)
1/1/13 – 12/31/17 $1,791,143

Yusu Wang

National Science Foundation (NSF)
CAREER: Geometric and Topological Methods in Shape Analysis, with Applications in Molecular Biology
PI: **Yusu Wang**
2/1/08 – 1/31/13 $420,000

Dong Xuan

National Science Foundation (NSF)
NeTS: Small: Integrating Electronic and Visual Signals for Accurate Localization
PI: **Dong Xuan**
Co-PI: Yuan F. Zheng (OSU Dept. of Electrical and Computer Engineering)
7/1/12 – 6/3/15 $430,000

National Science Foundation (NSF)
U.S.-China Workshop on Environmental Monitoring for Public Health and Disaster Recovery
PI: **Dong Xuan**
5/15/12 – 4/30/13 $60,558

Xiaodong Zhang

National Science Foundation (NSF)
CSR: Medium: Collaborative research: On Closed-loop and Cross-layer Design and Implementation of Data Storage Systems Utilizing Extremely Scaled NAND Flash Memory Technologies
PI: **Xiaodong Zhang**
7/1/12 – 6/30/14 $225,000

National Science Foundation (NSF)
SI2-SSE: A Unified Software Environment to Best Utilize Cache and Memory Systems on Multicores
PI: **Xiaodong Zhang**
6/1/12 – 5/31/15 $500,000

National Science Foundation (NSF)
Travel Support for the 32nd IEEE International Conference on Distributed Computing Systems
PI: **Xiaodong Zhang**
04/01/12 – 03/31/13 $10,000

National Science Foundation (NSF)
Travel Support for the 33rd IEEE International Conference on Distributed Computing Systems
PI: **Xiaodong Zhang**
5/1/13 – 4/30/14 $10,000

National Science Foundation (NSF)
Basic Research for Developing SSD-based Caching and Hybrid Storage Systems
PI: **Xiaodong Zhang**
8/1/09-7/31/13 $400,000

2013- 2014 Gifts by Faculty

Arnab Nandi
NEC Research Gift
$20,000

Arnab Nandi & Srinivasan Parthasarathy
Google Award Gift
$49,003.04

DK Panda
NVIDIA Corporation
$66,300

Nasko Rountev
Google Faculty Award
$48,286

Prasun Sinha
Toyota Gift
$16,000

Kannan Srinivasan
Toyota Gift
$10,000

Huamin Wang
Adobe Research
$20,000

The structural home of CSE is Dreese Labs II and the fun and evocative Garden of Constants is a favorite place for pictures.
(Photos courtesy of OSU: Image of the Day)
(Above taken by Digbijoy Nath - Postdoctoral Researcher, Electrical Engineering)
(Left taken by Ben Ebel, BSCSE, 2011)

2013-2014 COLLOQUIA

Chris Murphy   University of Pennsylvania
How Do You Test Non-testable Programs?

Daniel Peek   Facebook
A Short History of Facebook's User Data Storage System

Brad Penoff   Google
Scale & Performance team for Google Payments

Louis-Noel Pouchet   University of California, Los Angeles
Research Challenges in Compiler Optimization

David Race   Cray Cluster Solutions
Supercomputing at Cray - Building Computational Tools That Help Change The World

Davide Rossetti   NVIDIA Corp
Recent Developments in GPU Computing

Purnamrita Sarkar   University of California, Berkeley
Link Prediction: Theory and Practice

Karsten Schwan   Georgia Technical Institute
pMem - Persistent Memory for Data-intensive Applications

Vinay Sharma   Apple
Making Smarter Devices using Computer Vision

Arrvindh Shriraman   Simon Fraser University
SQRL: Hardware Accelerator for Collecting Software Data Structures

Hongning Wang   University of Illinois at Champaign – Urbana
Human-centric Big Data Mining: Humans as both Producers and Consumers of Big Data

Yang Wang   The University of Texas at Austin
Separating Data from Metadata for Robustness and Scalability

Adam Wierman   California Institute of Technology
Algorithmic Challenges for Greening Data Centers

Xiaoru Yuan   Peking University
Urban Traffic Trajectory Visual Analysis

Jianfeng Zhan   Chinese Academy of Sciences and University of Chinese Academy of Sciences
BigDataBench: Benchmarking and Evaluating Big Data Systems

Yinqian Zhang   University of North Carolina, Chapel Hill
Security Threats and Defenses in Multi-Tenant Public Clouds

Guest Speaker Mark Gillenson (center) poses with Bruce Weide, (left) Professor Emeritus, and Neelam Soundarajan (right), Associate Chair. As a 1974 alumni, Dr. Gillenson was able to share many stories of the early days of the Department.

STUDENTS

Ten Year Statistical History - Teaching Overview

	AU 2002	AU 2003	AU 2004	AU 2005	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013
Faculty	29	31	31	32	33	35	35	35	36	36	34	38
Course Enroll-ment/ Autumn Qtr.	4,076	3,650	3,125	3,187	3,238	3,386	3,702	3,943	4,075	4,609	5,737	6,508
	02-03	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14
Students Taught	13,878	12,208	10,623	10,844	10,641	11,185	12,209	12,689	13,744	14,523	12,457	14,463

The term/year of the conversion to semesters.

The Graduate Program

The CSE graduate program continues to expand. Each year for the past five has seen substantial increases in the number of applications received which has led to a natual increase in enrollment. Aditionally the Admissions Committee has been particularly pleased to see the quality of applicants also improving, thus allowing the committee to become more selective of their offers. In the 2013-14 year, 1,196 applications were received, and 438 were admitted, of which 113 enrolled; 25 of those received the honor of department support to help them thrive as individuals.

This year brought a personnel change. Kathryn Reeves has reduced her teaching obligations and will take on the role of Assistant Director of Academic Programs and Student Services, expanding her previous duties to include more graduate advising.

	AU 2003	AU 2004	AU 2005	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013
Graduate Students Enrolled	174	169	188	184	235	239	303	304	339	305	327
	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14
Graduate Student Applications	712	589	694	619	705	677	817	1,031	1,190	1,196	1,264
Graduate Students Supported	149	158	163	135	135	132	182	218	209	222	201
M.S. Degrees Awarded	31	27	21	33	37	39	64	40	37	86	93
Ph.D. Degrees Awarded	7	11	18	17	32	26	19	20	14	19	26
Ph.D. Degrees (cumulative)	332	343	361	378	410	436	455	475	489	508	534

The term/year of the conversion to semesters.

Doctorates Bestowed

Dr. Tarun Bansal   Google, Seattle, Washington, USA
Dr. Prasun Sinha   Dehradun, India
Network-centric Mechanism for Performance Improvement in Dense Wireless Networks
B.S., Indian Institute of Technology, Roorkee; M.S., University of Texas, Dallas; M.S., The Ohio State University

Dr. Tekin Bicer   Argonne National Laboratories, Lemont, Illinois, USA
Dr. Gagan Agrawal   Giresun, Turkey
Supporting Data-Intensive Scientific Computing on Bandwidth and Space Constrained Environments
B.S. Honors, Izmir Institute of Technology; M.S., The Ohio State University

Dr. Abon Chaudhuri   Intel Corp., Hillsboro, Oregon, University
Dr. Han-Wei Shen   Srirampur, India
Geometric and Statistical Summaries for Big Data Visualization
B.Engr., Jadavpur University; M.S., The Ohio State University

Dr. Zhezhe Chen   Twitter Inc., San Francisco, California, USA
Dr. Feng Qin   Lonyan, Fujian, China
System Support for Improving the Reliability of MPI Applications and Libraries
B.S., Zhejiang University; M.S., Zhejiang University; M.S., The Ohio State University

Dr. Joshua Eckroth   Stetson University, Deland, Florida, USA
Dr. John Josephson   Columbus, Ohio, USA
Anomaly-Driven Belief Revision by Abductive Metareasoning
B.A., Humboldt State University; B.S., Humboldt State University; M.S., The Ohio State University

Dr. Fengtao Fan   Google, Mountain View, California, USA
Dr. Tamal Dey   Pingxiang, China
Computing Topological Features of Data and Shapes
Bachelors, Hangzhou Dianzi University; M.S., Zhejiang University; M.A., University of Kentucky

Dr. Preethi Jyothi   University of Illinois, Urbana-Champaign, Illinois, USA
Dr. Eric Fosler-Lussier   Bangalore, India
Discriminative and Articulatory Feature-Based Pronunciation Models for Conversational Speech Recognition
B.Tech., National Institutes of Technology, India; M.S., The Ohio State University.

Dr. Krishna Chaitanya Kandalla   Cray, St. Paul, Minnesota, USA
Dr. Dhabaleswar Panda   Bangalore, India
High Performance Non-Blocking Collective Communication For Next Generation Infiniband Clusters
B.Tech., National Institutes of Technology, India.

Dr. Onur Kucuktunc   Google, Mountain View, California, USA
Dr. Ümit Çatalyürek   Ankara, Turkey
Result Diversification on Spatial, Multidimensional, Opinion, and Bibliographic Data
B.S., Bilkent University; M.S., Bilkent University; M.S., The Ohio State University.

Dr. Dong Li   LinkedIn, Mountain View, California, USA
Dr. Prasun Sinha   Taian, China
Enabling Smart Driving through Sensing and Communication in Vehicular Networking
B.Engr., University of Science and Technology of China; M.S., The Ohio State University

Dr. Xinfeng Li   Google, New York, New York, USA
Dr. Dong Xuan   LiShui, Zhejiang, China
Time-Sensitive Information Communications, Sensing, and Computing in Cyber-Physical Systems
B.Engr., Tsinghua University; M.S., Tsinghua University; M.S., The Ohio State University

Dr. Zhixue Lu   Two Sigma Investment, New York, New York, USA
Dr. Prasun Sinha   Handan, China
Deployment, Management, and Access Acquisition of Small-Cell based Networks
B.S., Peking University; M.S., Peking University; M.S., The Ohio State University

Dr. Chuanjiang Luo   Google, New York, New York, USA
Dr. Yusu Wang   Mianyang, China
Laplace-based Spectral Method for Point Cloud Processing
B.Engr., University of Science and Technology of China; Mech. Engr., Shenyang Institute of Automation

Dr. Miao Luo   Intel Corp., Hillsboro, Oregon, USA
Dr. Dhabaleswar Panda   Beijing, China
Designing Efficient MPI and UPC Runtime for Multicore Clusters with InfiniBand, Accelerators and Co-Processors
B.Engr., Beijing University of Posts and Telecommunications; M.S., The Ohio State University

Dr. Oleg Mishchenko   Schlumberger, Houston, Texas, USA
Dr. Roger Crawfis   Zhukovsky, Russia
Streamline Visualization Optimization Considering Information Theory, Textures and Semi-Transparency
Diploma, Moscow Institute of Physics and Technology; Masters, State University of New York, Stony Brook

Dr .Sreeram Potluri   NVIDIA, Santa Clara, California, USA
Dr. Dhabaleswar Panda   Gudivada, India
Enabling Efficient Use of MPI and PGAS Programming Models on Heterogeneous Clusters with High Performance Interconnects
B.S. Tech., Jawaharlal Nehru Technological University; M.S., The Ohio State University

Dr. Rohit Prakash Prabhavalkar   Google, Mountain View, California, USA
Dr. Eric Fosler-Lussier   Pune, India
Discriminative Articulatory Feature-Based Pronunciation Models with Application to Spoken Term Detection
B.Engr., University of Pune; M.S., The Ohio State University

Dr. Preethi Raghavan   IBM T J Watson Research Center, Yorktown Heights, New York, USA
Dr. Eric Fosler-Lussier   Mumbai, India
Medical Event Timeline Generation from Clinical Narratives
B.Tech., Shreemati Nathibai Damodar Thackersey Women's University; M.S., The Ohio State University

Dr. Bin Ren   Pacific Northwest National Laboratory, Richland, Washington, USA
Dr. Gagan Agrawal   Zhengding, China
Supporting Applications Involving Dynamic Structures and Irregular Memory Access on Emerging Parallel Platforms
B.Engr., Beihang University; M.S., The Ohio State University

Dr. Kazuya Sakai   Tokyo Metropolitan University, Tokyo, Japan
Dr. Ten-Hwang Lai   Suita, Osaka, Japan
Security and Privacy in Large Scale RFID Systems
B.S., Kansai University; M.S., Kansai University; M.S., Auburn University

Dr. Yu-Keng Shih
American Express, New York, New York, USA
Dr. Srinivasan Parthasarathy
Paipei, Taiwan
Identifying Protein Functions and Biological Systems through Exploring Biological Networks
B.Bus.Adm., National Taiwan University; M.S., The Ohio State University

Dr. Hari Subramoni
The Ohio State University, Columbus, Ohio, USA
Dr. Dhabaleswar Panda
Trivandrum, India
Topology-Aware MPI Communication and Scheduling for High Performance Computing Systems
Bachelor's, University of Kerala; M.S., The Ohio State University

Dr. Aditi Tagore
Bank of America, New York, New York, USA
Dr. Bruce Weide
Kolkata, India
Techniques to Improve Automated Software Verification
B.S.Tech., West Bengal University of Technology; M.S., The Ohio State University

Dr. Sanket Tavarageri
Reservoir Labs, New York, New York, USA
Dr. P. Sadayappan
Hubli, Karnataka, India
Complier Techniques for High Performance Computing, Energy, Effciency, and Resilience
B.Tech, National Institute of Technology, Karnataka; M.S., The Ohio State University

Dr. Jin Teng
Cisco Systems, Inc., San Jose, California, USA
Dr. Dong Xuan
Shanghai, China
Efficient Collection and Retrieval for Large Heterogeneous Dataset
B.Engr., Shanghai Jiao Tong University; Master's, Shanghai Jiao Tong University; M.S., The Ohio State University

Dr. Ye Wang
Google, Mountain View, California, USA
Dr. Srinivasan Parthasarathy
Xinyi, Jiangsu, China
Next Generation Outlier Detection
B.Engr., Huazhong University of Science and Technology; M.S., The Ohio State University

(Above) New graduates from the NOWLAB pose with their advisor, DK Panda. They are (l-r) Dr. Miao Luo, Dr. Krishna Kandalla, Prof. DK Panda and Dr. Hari Subramoni.

Dr. Ümit Çatalyürek congratulates his mentee, the new Dr. Onur Kucuktunc.

2013 - 2014 New Masters of Science

Sameh Mohamed Shohdy Ahmed Abdulah
Gagan Agrawal
Shebin-Elkom, Egypt
B.S., Minufiya University; M.S.,
Minufiya University

Manas Agrawal
Bruce Weide
Jabalpur, India
Bachelor's, University of Pune

Michael David Andereck
Roger Crawfis
Dublin, Ohio, USA
B.S. Vanderbilt University

Tarun Bansal
Prasun Sinha
Columbus, Ohio, USA
B.S., Indian Institute of Technology, Roorkee;
M.S., University of Texas at Dallas

Rohan Sudhir Benkar
Rajiv Ramnath
Pune, India
B.Engr., University of Pune

Prasad Vijay Bhandari
Michael Bond
Pune, India
Bachelors, University of Pune

Sandeep Chatra Raveesh
Jayashree Ramanathan
Bangalore, India
B.Engr., Visveswaraiah Technological University

Wei Chen
Rajiv Ramnath
Nanjing, China
B.S., Nanjing Normal University;
M.A., The Ohio State University

Yinxiao Chen
Rajiv Ramnath
Changzhou, China
B.S., Nanjing University

Zhaoyi Chen
Rajiv Ramnath
Shenzhen, China
B. Engr., Sun Yat-sen University

Miao-Chen Chou
Anish Arora
Taiohung, Taiwan, ROC
B.Engr., National Taipei University

Akshay Ajay Deshpande
Eric Fosler-Lussier
Pune, India
B.Engr., University of Pune

Vaibhav Ramchandra Devekar
Luis Rademacher
Thane, Maharashtra, India
Bachelor's, University of Mumbai

Piyush Dhar Diwan
Rajiv Ramnath
Raipur, Chhattisgarh, India
Bachelor's, Ravi Shankar University; Master's,
Indian Institute of Technology, Guwahati

Kripa Durgaprasad
Eric Fosler-Lussier
Chennai, Tamil Nadu, India
Bachelor's, Anna University

Joshua Ryan Eckroth
John Josephson
Columbus, Ohio, USA
B.A., Humboldt State University; B.S.,
Humboldt State University

Jonathan Andrew Eisenmann
Richard Parent
Columbus, Ohio, USA
B.S.Cptr.Sci.Engr., University of Texas, Dallas

Venmugil Elango
P. Sadayappan
Tamil Nadu, India
B.Engr., Anna University

Kshitij Fadnis
John Josephson
Thane, India
B.Engr., University of Mumbai

S. M. Faisal
Srinivasan Parthasarathy
Khulna, Bangladesh
B.S., Islamic University of Technology

Michael Fritz
Kenneth Supowit
Columbus, Ohio, USA
B.S., The Ohio State University

David Patrick Fuhry
Srinivasan Parthasarathy
Parkman, Ohio, USA
B.S., Kent State University; M.S.,
Kent State University

Xiaoyin Ge
Yusu Wang
Shanghai, China
B.S., Tongji University; M.S., The
Ohio State University

Gourab Ghosh Roy
Brian Kulis
Kolkata, WB, India
Bachelor's, Jadavpur University

George Michael Green
Rajiv Ramnath
Columbus, Ohio, USA
B.A., The Ohio State University; M.A., The Ohio
State University; J.D., The Ohio State University

Michael Jay Herold
Rajiv Ramnath
Pickerington, Ohio, USA
B.A., Capital University

Dustin Hoffman
Bruce Weide
Columbus, Ohio, USA
B.S., The Ohio State University

Xin Huo
Gagan Agrawal
Columbus, Ohio, USA
B.S., Beijing Institute of Technology;
M.S., Beijing Institute of Technology

Nitish Jindal
Christopher Stewart
Columbus, Ohio, USA
B.Engr., University of Delhi

Pacharmon Kaewprag
Raghu Machiraju
Bangkok, Thailand
B.Engr., King Mongkut's Institute of Technology;
Master's, Asian Institute of Technology

Satya Sundeep Kambhampati
Christopher Stewart
Andhra Pradesh, India
Bachelor's, Vellore Institute of Technology

Krishna Chaitanya Kandalla
Dhabaleswar Panda
Bangalore, India
B.Tech., National Institutes of Technology

Mitesh Mukesh Kanjariya
Jayashree Ramanathan
Mumbai, India
B.Tech., University of Mumbai

Kishor Yadav Kommanaboina
P. Sadayappan
Chirala, India
B.S., Indian Institutes of Information Technology

Niranjan Konda
Rajiv Ramnath
Bangalore, India
B.Tech., National Institutes of Technology, India

Yuxiang Kou
Han-Wei Shen
Shaanxi, China
B.S.Mech.Eng., Beijing Institute of Technology

Royden Mark Jacob Lewis
Srinivasan Parthasarathy
Udupi, India
B.Engr., Visveswaraiah Technological University

Dong Li
Prasun Sinha
Taian, China
B.Engr., University of Science
and Technology of China

Henan Li
Rajiv Ramnath
Beijing, China
B.Engr., Beijing University of Posts
and Telecommunications

Xinfeng Li
Dong Xuan
LiShui, Zhejiang, China
B.Engr., Tsinghua University;
M.S., Tsinghua University

Ye Liu
Brian Kulis
Dalian, China
B.S. Elec.Cptr.Engr., The Ohio State University

Akanksha Sagar Lonhari
Rajiv Ramnath
Pune, Maharashtra, India
Bachelor's, University of Pune

Zhixue Lu
Prasun Sinha
Handan, China
B.S., Peking University; M.S., Peking University

Arati Mahimane
Jayashree Ramanathan
Pune, India
Bachelor's, University of Pune

Rohit Sudhish Manaktala
Jayashree Ramanathan
Mumbai, India
B.Engr., Rajiv Gandhi Institute of Technology

Neha Mazumder
Michael Bond
Kolkata, West Bengal, India
B.S.Tech., West Bengal University of Technology

Nan Meng
Raghu Machiraju
Tianjin, Tianjin, China
B.S., Hebei University of Technology

Naman Mody
Roger Crawfis
Noida, Uttar Pradesh, India
Bachelor's, LNM Institute of
Information Technology

Saravanan Mohan
Rajiv Ramnath
Columbus, Ohio, USA
Bachelor's, P.S.G. College of Technology,
Bharathiar University

Aveek Mukhopadhyay
James Davis
New Delhi, India
B.S.Tech., National Institutes of Technology

Karthik Navaneethakrishnan
Rajiv Ramnath
Madurai, India
B.Tech., Anna University

Akshay Machhindra Nikam
P. Sadayappan
Aurangabad, Maharashtra, India
B.S.Tech., University of Pune

Qingpeng Niu
P. Sadayappan
Shenyang, China
B.Engr., Northeastern University

Sai Prathyusha Peddi
Bruce Weide
Columbus, Ohio, USA
B.Engr., Birla Institute of Technology and Science;
M.S., Birla Institute of Technology and Science

Sreeram Potluri
Dhabaleswar Panda
Gudivada, India
B.Tech., Jawaharlal Nehru
Technological University

Qichao Que
Mikhail Belkin
Jiande, Zhejiang, China
B.S., Zhejiang University

Sudharsan Rajagopalan
Rajiv Ramnath
Madurai, India
Bachelor's, Anna University

Divya Ravichandran
Gagan Agrawal
Chennai, India
Bachelor's, Anna University

Bin Ren
Gagan Agrawal
Zhengding, China
B.Engr., Beihang University

Yiye Ruan
Srinivasan Parthasarathy
Shanghai, China
B.A., Peking University

Juan Ignacio Santa Cruz Cosp
Kannan Srinivasan
Asunción, Paraguay
Bachelor's, Universidad Católica
Nuestra Señora de la Asunción

Arunprasaath Selvadhurai
Rajiv Ramnath
Thanjavur, India
Bachelor's, Anna University

Shubhanjan Shekhar
Feng Qin
Columbus, Ohio, USA
Bachelor's, LNM Institute of
Information and Technology

Himanshu Shivhare
Mikhail Belkin
Ghaziabad, Uttar Pradesh, India
B.S., Uttar Pradesh Technical University

Abhijeet Kumar Singh
Rajiv Ramnath
Rukanpura, Bihar, India
Bachelor's, Visveswaraiah
Technological University

Siddharth Singh
Brian Kulis
New Delhi, India
B.Engr., University of Delhi

Aditi Singhal
Rajiv Ramnath
Columbus, Ohio, USA
B.S., Uttar Pradesh Technical University

Andrew Grady Slatton
Tamal Dey
Roswell, Georgia, USA
Bachelor's, Vanderbilt University

Gaurav Soni
Anish Arora
Kolkata, India
B.S.Tech., National Institutes of Technology

Atreya Srivathsan
Rajiv Ramnath
Kannur, India
B.Tech., Vellore Institute of Technology

Kevin Alan Stock
P. Sadayappan
Columbus, Ohio, USA
B.S.Cptr.Sci.Eng., The Ohio State University

Yu Su
Gagan Agrawal
Lianyungang, Jiangsu, China
Bachelor's, Nanjiang University;
Master's, Peking University

Hari Subramoni
Dhabaleswar Panda
Columbus, Ohio, USA
Bachelor's, University of Kerala

Chirag Tayal
Rajiv Ramnath
Kota, India
B.Engr., University of Rajasthan

Fei Teng
Kannan Srinivasan
Yancheng, China
B.S., Shanghai Jiao Tong University

Sudheer Tumu
Rajiv Ramnath
Canal Winchester, Ohio, USA
B.Tech., Andhra University; M.S., State
University of New York, Albany

Aishwarya Varadarajan
Gagan Agrawal
Chennai, India
Bachelor's, Anna University

Siddharth Chaitanyakumar Varia
Srinivasan Parthasarathy
Gujarat, India
Bachelor's, National Institutes
of Technology, India

Ramiya Venkatachalam
Jayashree Ramanathan
Pune, India
Bachelor's, University of Pune

Vikram Sanjay Wakade
Kenneth Supowit
Jalgaon, Maharashtra, India
B.S.Tech., University of Pune

Jeffrey Daniel Walsh
Ten-Hwang Lai
Columbus, Ohio, USA
B.S.Cptr.Sci.Eng., The Ohio State University

Lei Wang
Tamal Dey
Luohe, China
Bachelor's, Dalian University of Technology;
Master's, Dalian University of Technology

Yuxuan Wang
DeLiang Wang
Yangzhou, China
Bachelor's, Nanjing University of
Posts and Telecommunications

Alec Wiseman
P. Sadayappan
Athens, Ohio, USA
B.S., University of Rio Grande; M.S.,
College of William and Mary

Annatala Trixie Wolf
Jayashree Ramanathan
Columbus, Ohio, USA
B.A., University of Illinois, Springfield;
B.S.Cptr.Sci.Eng., The Ohio State University

Nishita Yalamanchili
Rajiv Ramnath
Hyderabad, India
B.S.Tech., Jawaharlal Nehru Technological
University; M.S., The Ohio State University

Shengqian Yang
  Atanas Rountev
  Duyun, Guizhou, China
  B.S., Shanghai Jiao Tong University

Shuai Ye
  Rajiv Ramnath
  Yichang, Hubei, China
  B.S., Zhejiang University of Technology

Xi Yi
  DeLiang Wang
  Hunan, China
  B.Engr., Beijiang Institute of Technology

Diego Zaccai
  Bruce Weide
  Buenos Aires, Argentina
  B.S.Cptr.Sci.Eng., The Ohio State University

Daniya Zamalieva
  James Davis
  Columbus, Ohio, USA
  B.S., Hacettepe University; M.S., Bilkent University

Yang Zhang
  Srinivasan Parthasarathy
  Taizhou, Jiangsu, China
  B.S., Zhejiang University

Farhang Zia
  Srinivasan Parthasarathy
  New Delhi, India
  B.Tech., Uttar Pradesh Technical University

Dr. Christopher Stewart (far right) with Masters advisee, Sundeep Kambhampati (in cap & gown). Also shown are Sudeep's parents, Sarma (far left) and Bhavani (2nd left), and brother-in-law, Prasad Calyam (middle).

Masters' grads pose in the Garden of Constants outside Dreese Labs. Left to right are: Sundeep Kambhampati, Akshay Nikam, Naman Mody, Akanksha Lonhari, Aveek Mukharjee, Vaibhav Devekar, Vikram Wakade, and Gaurav Soni; kneeling is Nitish Jindal.

The Undergraduate Program

The Undergraduate Advising Office has been busy keeping up with the students. CSE and CIS continue to grow in popularity as more students than ever apply to the majors and pursue the minors. Altogether, almost 400 students were accepted into the BSCSE, BSCIS, and BACIS majors during the 2013-14 academic year. Enrollment management is in full swing, with the current minimum GPA now at 3.0 (up from 2.5), and it will increase to 3.2 effective May 2015.

Students who may be seeking an alternative to Computer Science now have a new option with the addition of the Data Analytics major, which was approved in Spring 2014. The first group of students enter the program in Autumn 2014.

	AU 2003	AU 2004	AU 2005	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013
Undergrad Students Enrolled	990	817	800	795	817	877	871	971	1,102	1,287	1,413
	03-04	04-05	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14
B.A., B.S. Degrees Awarded	274	192	124	140	142	138	127	152	213	229	204

***The term/year of the conversion to semesters.*

The Undergraduate Advising Staff

Dr. Nikki Strader, Academic Advising Coordinator, has been with the department since 2003. She is an active member of ACADAOS (Academic Advising Association at Ohio State), for which she was President from 2006 to 2008 and from which she received one of two "Outstanding Advisor" awards in 2007. She is also a musicologist, having presented and written about the composer Benjamin Britten. Her most recent paper, which was presented at the international conference "Britten at 100: An American Centenary Symposium Celebration," held in October 2013 at Illinois State University, will be archived and available in Ohio State's Knowledge Bank later in 2014.

Chelsea Norris, Academic Advisor. Chelsea has been advising in CSE since January 2013. She previously worked as an advisor at Ohio University after earning her Masters of Arts in Higher Education and Student Affairs at the University of Connecticut. She serves as the primary contact for all first year pre-CSE students, instructor for CSE survey classes and facilitator for orientation.

Mary Jo Deerwester, Academic Advisor & Staff Assistant. Mary Jo graduated from OSU in 1971 with a Bachelor of Science degree in Education. (Major: English; Minor: Psychology) She followed that in 1983 with a Master's Degree in Guidance and Counseling. Mary Jo previously worked as an Academic Advisor at Columbus State Community College and as an Academic Advisor/Staff Assistant for the OSU College of Engineering.

Jeff Walsh, Graduate Advising Assistant, recently completed his Master's degree in Computer Science & Engineering, graduating in Spring semester 2014. His study focus was on computer graphics. Jeff is now working for Harris Corporation in Florida.

Left to right: Nikki Strader, Jeff Walsh, Chelsea Norris, and Mary Jo Deerwester.

UNDERGRADUATE DEGREES AWARDED: COLLEGE OF ARTS & SCIENCES

Name, DEGREE
    Award (when applicable)
    Home

Jesse Tyler Barron, BS
Cum Laude
Milan, Ohio, USA

Stephen Bedell, Jr. , BS
Brecksville, Ohio, USA

Brian W. Bradley, BA
Gahanna, Ohio, USA

John William Brown, BS
Hilliard, Ohio, USA

Ethan Michael Carroll, BS
Westerville, Ohio, USA

Bradley David Chambers, BS
Centerville, Ohio, USA

Aaron C. D'Amico, BA
Columbus, Ohio, USA

Nicholas Alan Darrell, BS
Rockville, Maryland, USA

Benjamin Andrew Davis, BS
Bexley, Ohio USA

Kyle Patrick Donovan, BS
Springfield, Ohio, USA

Justin Alexander Edse, BA
Westerville, Ohio, USA

Ryan Matthew Gibson, BS
Stow, Ohio, USA

Alexander Mark Ginsberg, BA
Columbus, Ohio, USA

Jules Sage Hausman, BS
Columbus, Ohio, USA

David Carl Holmes, BS
Columbus, Ohio, USA

Junfei Huang, BS
Cum Laude,
with Honors in the Arts and Sciences
Linan, Zhejiang Province, China

Daniel P. Jensen, BA
Chicago, Illinois, USA

Eric John Kane, BS
Magna Cum Laude
Perry, Ohio, USA

Aaron Thomas Kaverman, BS
Ottoville, Ohio, USA

Charles William King, BS
Dublin, Ohio, USA

Mohamadou Koita, BS
Kaedi, Mauritania

Andrew Joshua Krieger, BS
Summa Cum Laude
with Honors in the Arts and Sciences
Westerville, Ohio, USA

Yen Nei Lee, BS
Kajang, Malaysia

Gerard Louis, BS
Elyria, Ohio, USA

Alexander Thomas Mapes, BA
Powell, Ohio, USA

Rachel Alexa McIlrath, BS
Milan, Ohio, USA

Michael James McNamara, BS
Magna Cum Laude
Toledo, Ohio, USA

John William Miller, BS
Cum Laude
with Honors in the Arts and Sciences
Upper Arlington, Ohio, USA

George Nicolas Moussi, BS
Upper Arlington, Ohio, USA

Obinna Udechukwu Ngini, BS
Cum Laude
with Honors in the Arts and Sciences
Amawbia, Nigeria

Nathaniel Andrew Niederkorn, BS
Magna Cum Laude
Eastlake, Ohio, USA

Blake Hunter Offord, BS
Gahanna, Ohio, USA

Samuel N. Okin, BS
Highland Park, Illinois, USA

Brian Paul Orchosky, BS
Copley, Ohio, USA

Joseph Angelo Pedicini, BS
Olmsted Falls, Ohio, USA

Alexander Michael Perry, BS
Cincinnati, Ohio, USA

David Douglas Pittenger, BS
Ostrander, Ohio ,USA

Chelsey Leigh Salberg, BS
Rocky River, Ohio, USA

Elliot Paul Schumacher, BS
Cum Laude
with Honors in the Arts and Sciences
Pandora, Ohio, USA

Carrie Ann Scono, BS
Cum Laude
Granville, Ohio

Todd Michael Simmons, BS
Columbus, Ohio, USA

Brandon Matthew Smith, BS
Beachwood, Ohio, USA

Eric Michael Smith, BS
Eastlake, Ohio, USA

Joel C. Sowers, III, BA
Columbus, Ohio, USA

Franklin H. Sun, BS
Great Falls, Virginia, USA

Raja Sekhar Tummala, BS
Hyderbad, Andhra Pradesh, India

Jun Uzawa, BS
Pickerington, Ohio, USA

Li Wei, BS
Wuhan, China

Undergraduate Degrees Awarded: College of Engineering

Name
Award (when applicable)
Home

Joshua Sovanh Adams
Columbus, Ohio, USA

Thomas W. Allenbaugh
Sidney, Ohio, USA

Nicholas Penniman Alt
Miamisburg, Ohio, USA

Eric Anthony Amador
Avon, Ohio, USA

Timothy Alan Armstrong
Magna Cum Laude
Columbus, Ohio, USA

Mitchell James Arthur
Westerville, Ohio, USA

Ian Scott Baker
Columbus, Ohio, USA

James Michael Balata
Brecksville, Ohio, USA

Kevin Robert Bhasin
Rocky River, Ohio, USA

Ashley Elizabeth Biales Wise
Magna Cum Laude
with Honors in Engineering
Solon, Ohio, USA

Kathryn Ann Blackburn
Salem, Ohio, USA

Quentin C. Bloomfield
Lowell, Ohio, USA

Matthew David Boatman
Lima, Ohio, USA

Zachary Joseph Boerger
Cum Laude
Perrysburg, Ohio, USA

Michael David Boker
Cum Laude
Warren, Ohio, USA

Kyle Matthew Brake
Magna Cum Laude
Reynoldsburg, Ohio, USA

Benjamin Patrick Bricker
Massillon, Ohio, USA

Duy Xuan Bui
Magna Cum Laude
Bac Giang, Vietnam

Sean Micheal Burke
Columbus, Ohio, USA

Sean King Burkholder
Pandora, Ohio, USA

Kyle Casey Callicoat
Westerville, Ohio, USA

Emilio Cantu, Jr.
San Juan, Texas, USA

Patrick William Carfrey
Grove City, Ohio, USA

Benjamin Bergin Caruso
Columbus, Ohio, USA

Joshua Patrick Cassidy
Cum Laude
Columbus, Ohio, USA

Vincent Yung-Chi Chen
Potomac, Maryland, USA

Andrew Robert Cuthbert
Magna Cum Laude
Mentor, Ohio, USA

Matthew Shane Daley
West Jefferson, Ohio, USA

Shane Dorsey Dancy
Berlin Heights, Ohio, USA

Seth Alexander Darbyshire
Summa Cum Laude
Hillsboro, Ohio, USA

Joel Edward Davis
Magna Cum Laude
Columbus, Ohio, USA

Nicholas Beau Dean
Galion, Ohio, USA

Evan Christopher DeLaubenfels
Magna Cum Laude
Columbus, Ohio, USA

Matthew Demarest
Magna Cum Laude
Lexington, Ohio, USA

Brett Elliott Dickson
Summa Cum Laude
Lisle, Illinois, USA

Keegan Timothy Donnelly
Magna Cum Laude
Hudson, Ohio, USA

Joseph Eric Echt
Mason, Ohio, USA

Nicholas A. Eckert
Delta, Ohio, USA

Amasi Sadeg H. El Bakush
Columbus, Ohio, USA

Ahmad Khaled Farag
Powell, Ohio, USA

Coleman Craig Fennel
Magna Cum Laude
with Honors in Engineering
Middletown, Ohio, USA

Michael Anthony Filliater
Smithfield, Virginia, USA

Andrew Caldwell Fitzgerald
Columbus, Ohio, USA

Jason George Flanders
Chagrin Falls, Ohio, USA

Rocky T. Forehand
Tiro, Ohio, USA

Spencer David Foulkes
Celina, Ohio, USA

Ian Alexander Freshwater
Magna Cum Laude
Plain City, Ohio, USA

Frank Steven Fulajtar, Jr.
Mentor, Ohio, USA

Richard Michael Georgeoff, III
Powell, Ohio, USA

Bharat Gogineni
Lewis Center, Ohio, USA

Keith Trinidad Gonzalez Bonzo
Franklin Furnace, Ohio, USA

Chelsea Rianne Gross
Gahanna, Ohio, USA

Richard Salvatore Gullo, Jr.
Magna Cum Laude
Powell, Ohio, USA

Abigail Nicole Hahn
Columbus, Ohio USA

Zachary Todd Hall
North Lawrence, Ohio, USA

Stephen Trevor Hara
Kitts Hill, Ohio, USA

Shaun Arthur Hardin
Magna Cum Laude
Warren, Ohio, USA

David Timothy Hazlett
Springfield, Ohio, USA

Scott Bradley Hegman
Cincinnati, Ohio, USA

Trevion S. Henderson
Missouri City, Texas, USA

Maxwell Jameson Henry
Magna Cum Laude
Gahanna, Ohio, USA

John Robert Heyneman
Whitehouse, Ohio, USA

Feng Hong
Cum Laude
Guangzhou, China

David Michael Householder
Cum Laude
with Honors in Engineering
Bidwell, Ohio, USA

Xiaoran Hu
Nantong, China

Tyler Reed Hugenberg
Cincinnati, Ohio, USA

Mitchell David Humke
Cincinnati, Ohio, USA

Jacob Edward Hundley
Marion, Ohio, USA

Asma Ul Husna
Columbus, Ohio, USA

Mohamed Hassan Ali Hussein
Columbus, Ohio, USA

Richard Glenn Hutcheson, IV
Cum Laude
Dresden, Ohio, USA

Nathan D. Jacobs
Toledo, Ohio, USA

Xing Jin
Columbus, Ohio, USA

Alexander Steven Jones
Sherwood, Ohio, USA

Nicholas Pirooz Joodi
Dublin, Ohio, USA

Kislaya Kanan
Patna, India

Santosh Kantharaj
Magna Cum Laude
Avon, Ohio, USA

Matthew Austin Kershaw
Reynoldsburg, Ohio, USA

Shantanu Khemani
Cum Laude
Indore, India

Ratul Khosla
New Delhi, India

Jacob Brian Kiley
Milan, Ohio, USA

Hyuk Jin Kim
Seven Hills, Ohio, USA

Gerrit Brett Kitts
Pikeville, Ohio, USA

Jacob Allen Klingler
Cum Laude
Stow, Ohio, USA

Zachary Adam Knickerbocker
Summa Cum Laude
Columbus, Ohio, USA

Benjamin David Kracker
Canton, Ohio, USA

Aneeth Krishnamoorthy
Cum Laude
with Honors in Engineering
Dublin, Ohio, USA

Depak Kumar
Magna Cum Laude
Colombo, Sri Lanka

Alexander James Lee
Magna Cum Laude
Green, Ohio, USA

Hsien-ming Lee
Taipei, Taiwan, ROC

Shawn Jason Lee
Zanesville, Ohio, USA

Bryan James Lewis
Newark, Ohio, USA

Anna Jie Lin
Mason, Ohio, USA

Boyu Liu
Summa Cum Laude
Shanghai, China

Mei Liu
Columbus, Ohio, USA

Bradley David Lybarger
Summa Cum Laude
Reynoldsburg, Ohio, USA

Vivek Mandan
Columbus, Ohio, USA

Arathi Mani
Summa Cum Laude
with Honors in Engineering
Dublin, Ohio, USA

Chirag Masekar
Beavercreek, Ohio, USA

Eric Theodore Mathews
San Diego, California, USA

Michael David McCarrick
Magna Cum Laude
Galena, Ohio, USA

Gwendolyn May McDonald
Cum Laude
Blacklick, Ohio, USA

Geoffrey Steven McGinnis
Uniontown, Ohio, USA

William Charles McGowan
Columbus, Ohio, USA

Andrew James McKain
Cum Laude
Hilliard, Ohio, USA

Samuel Arthur Meier
Columbus, Ohio, USA

Brett Andrew Mugglin
Heath, Ohio, USA

Tremayne Tapiwa Mushayahama
Chitungwiza, Zimbabwe

Benjamin Ng
West Chester, Ohio, USA

Tien Dong Ngo
Lewis Center, Ohio, USA

Tracy Andrew Parsons
Kent, Ohio, USA

Jay B. Patel
Chicago, Illinois, USA

Brandon Ryan Patridge
Columbus, Ohio, USA

Angel Lashawn Pay
Akron, Ohio, USA

Alex Robert Pelletier
Columbus, Ohio, USA

Mariel Lee Penkowski
Mentor, Ohio, USA

Mark Scott Porter
Whitehall, Ohio, USA

Matthew Allen Radosavljevic
Brunswick, Ohio, USA

Michael Brandon Rauh
Akron, Ohio, USA

Barry Robinson, Jr.
Cleveland, Ohio, USA

Robert Andrew Rohweder
Magna Cum Laude
Westlake, Ohio, USA

Eric Joseph Rose
Brecksville, Ohio, USA

William Raymond Ruck, III
Beavercreek, Ohio, USA

Michelle Renee Rush
Magna Cum Laude
with Honors in Engineering
Manlius, New York, USA

Aaron F. Russell
Akron, Ohio, USA

Andrew Zook Santarelli
Steubenville, Ohio, USA

Erik Petersen Schilling
Magna Cum Laude
with Research Distinction in
Computer Science and Engineering
Columbus, Ohio, USA

Brandon Louis Seich
Powell, Ohio, USA

Zachary Lewis Serafini
East Sparta, Ohio, USA

Pengyin Shan
WeiFang City, China

Sankalp Sharma
Dehradun, India

Jacob Raymond Shields
Summa Cum Laude
Baltimore, Ohio, USA

Bryan Anthony Skippers
Solon, Ohio, USA

Emily Rose Smith
Cleveland, Ohio, USA

Matthew Scott Smith
Dayton Ohio, USA

Daniel Joseph Steck, III
Fairborn, Ohio, USA

Michael Alexander Steen
Newark, Ohio, USA

Michael Steven Steger
Columbus, Ohio, USA

Ian Blackwell Stitzlein
Orient, Ohio, USA

Xiaokai Sun
Yantai, China

Michael E. Sustarsic
Dublin, Ohio, USA

Zachary Joseph Tangeman
Magna Cum Laude
Marysville, Ohio, USA

Senait Eyayu Tesfahun
Canal Winchester, Ohio, USA

John Sebastian Thimmig
Chagrin Falls, Ohio, USA

Stanley Ngo To
Westerville, Ohio, USA

Igor Georgievich Tolkachev
St. Petersburg, Russia

Michael David Urban
Strongsville, Ohio, USA

Gautham Krishna Vemulapalli
Vijayawada, India

Joshua P. Ventura
Cum Laude
Ashland, Ohio, USA

Steven Augustus Vignos
Massillon, Ohio, USA

Derek Michael Visner
Cum Laude
Chagrin Falls, Ohio, USA

Chau Vo
Copley, Ohio, USA

Kyle Wesley Voisard
Cincinnati, Ohio, USA

Shi Ho Wang
Toledo, Ohio, USA

Curtis Michael Wilson
Sandusky, Ohio, USA

Alexander Runyang Xu
Magna Cum Laude
Dublin, Ohio, USA

Rengao Zhou
Wuxi, China

Chenghan Zou
Magna Cum Laude
Chengdu, China

FACULTY, SCIENTISTS & STAFF

Tenured & Tenure Track Faculty

Gagan Agrawal

Full Professor

B.S., Computer Science & Engineering, Indian Institute of Technology, Kanpur, India, 1991; M.S., Computer Science, University of Maryland, College Park, Maryland, 1994; Ph.D., Computer Science, University of Maryland, College Park, Maryland, 1996

Department Research Area: SYSTEMS

Interests: High Performance Computing and Big Data Issues, Programming Models, Fault-Tolerance, Cloud Computing and Data Mining.

Anish Arora

Full Professor

B. Tech., Computer Science and Engineering, Indian Institute of Technology, New Delhi, 1986; M.S., Computer Science, University of Texas, Austin, 1988; Ph.D., Computer Science University of Texas, Austin, 1992.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Wireless Sensor Networks; Cyberphysical Systems; Fault-tolerant, Secure And Timely Computing; Distributed Systems and Networks; Component-Based Design; Formal Methods; Concurrency Semantics.

Mikhail Belkin

Associate Professor

Hon.B.Sc. with High Distinction, Mathematics, University of Toronto, 1995; M.S., Mathematics, University of Chicago, 1997; Ph.D., Mathematics, University of Chicago, 2003.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Machine Learning And Statistical Analysis Of Natural Data; Manifold And Spectral Methods For Machine Learning; Algorithms For Semi-Supervised Learning And Clustering; Understanding The Value Of Unlabeled Data In Pattern Recognition; Theoretical analysis of algorithms, particularly in high dimension; Connections to Human Cognition.

Spyros Blanas

Assistant Professor

Engineering Diploma (5-year B.Sc.), Electronics & Computer Engineering, Technical University of Crete, Greece, 2006; M.Sc., Computer Science, University of Wisconsin–Madison, 2009; Ph.D. in Computer Science from the University of Wisconsin–Madison, 2013.

Department Research Area: SYSTEMS

Interests: Database Management Systems.

Michael Bond
Assistant Professor

B.S., Computer Science, University of Illinois at Urbana-Champaign, 2002; M.C.S., Computer Science, University of Illinois at Urbana-Champaign, 2003; Ph.D., Computer Sciences, The University of Texas at Austin, 2008

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

Interests: Developing Program Analyses and Software Systems that make Complex, Concurrent Software Reliable, Scalable, and Secure. Programming Languages, Software Systems, Runtime Systems, Program Analysis, Compilers, Security.

Roger Crawfis
Associate Professor

B.S., Computer Science and Applied Mathematics, Purdue University, 1984; M.S., Computer Science, University of California, Davis, 1989; Ph.D., Computer Science, University of California, Davis, 1995.
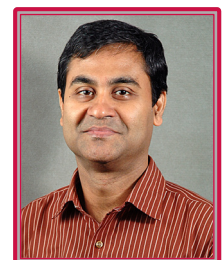
Department Research Area: GRAPHICS

Interests: Computer Graphics; Video Game Technology; Serious Games; Scientific Visualization; Medical Imaging; and Volume Rendering.

James W. Davis
Full Professor
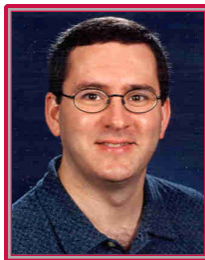
B.S., Computer Science, University of Central Florida, 1994; M.S., Media Laboratory, Massachusetts Institute of Technology, 1996; Ph.D., Media Laboratory, Massachusetts Institute of Technology, 2000.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Computer Vision; Automatic Visual Surveillance and Monitoring; Human Activity Recognition; Video Understanding; and Human-Computer Interaction.

Tamal K. Dey
Full Professor

B.E., Electronics, Jadavpur University, 1985; M.Tech., Computer Science, Indian Institute of Science-Bangalore, 1987; Ph.D., Computer Science, Purdue University, 1991.

Department Research Area: THEORY, GRAPHICS

Interests: Computational Geometry; Computational Topology; Geometric Modeling; Meshing; Data Analysis.

Eric Fosler-Lussier
Associate Professor

B.A., Linguistics, University of Pennsylvania, 1993; B.A.S., Computer and Cognitive Science, University of Pennsylvania; 1993; Ph.D., Computer Science, University of California, Berkeley, 1999

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Automatic Speech Recognition; Computational Linguistics; Machine Learning.

Brian Kulis
Assistant Professor

B.A., Computer Science and Mathematics, Cornell University; Ph.D., Computer Science University of Texas at Austin, 2008.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Machine Learning, Statistics, Large-Scale Data Analysis, Numerical Optimization, Data Mining, Computer Vision.

Ten-Hwang (Steve) Lai
Full Professor

B.S., Mathematics, Fu-Jen University, Taiwan, 1972; M.S., Mathematics, Fordham University, 1976; Ph.D., Computer Science, University of Minnesota, 1982.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Cryptography; Network Security; and Parallel and Distributed Computing.

Raghu Machiraju
Full Professor

B.Sc., Electrical Engineering, Delhi University, 1982; M.S., Automation, Indian Institute of Science, Bangalore, 1984; Ph.D., Computer Science, The Ohio State University, 1996.

Department Research Area: GRAPHICS

Interests: Data Visualization; Imaging; Bioinformatics; Computational Biology.

R. Facundo Mémoli

Assistant Professor

B.S. Electrical Engineering. Universidad de la Republica, Uruguay, 2000; M.S. Electrical Engineering, Universidad de la Republica, Uruguay, 2001; PhD Electrical and Computer Engineering, University of Minnesota, 2005.

Departmental Research areas: THEORY

Research interests: Metric geometry, shape and data analysis, computational topology.

Arnab Nandi

Assistant Professor

Bachelors in Information Science, University of Delhi, India, 2005; M.S., University of Michigan, Ann Arbor, 2007; Ph.D., University of Michigan, Ann Arbor, 2011.

Department Research Area: SYSTEMS

Interests: Structured Search and Large-scale Data Analysis Efficient Interaction with Databases and the Management of Large, Diverse Data Collections.

DK Panda

Full Professor

B.S., Electrical Engineering, Indian Institute of Technology, Kanpur, India, 1984; M.S., Electrical and Computing Engineering, Indian Institute of Science, Bangalore, India, 1986; Ph.D., Computer Engineering, University of Southern California, Los Angeles, 1991.

Department Research Area: SYSTEMS

Interests: Parallel Computer Architecture; High Performance Networking; Network-Based Computing; Cluster Computing; High Performance File/Storage Systems; Lan-Wan Interfacing and Communication; and Resource Management.

Srinivasan Parthasarathy

Full Professor

B.E., Electrical Engineering, University of Roorkee, India, 1992; M.S., Electrical Engineering, University of Cincinnati, 1994; M.S., Computer Science, University of Rochester, 1996; Ph.D., Computer Science, University of Rochester, 2000.

Department Research Area: SYSTEMS

Interests: Data Mining; Database Systems; Network Analysis; Bioinformatics; High Performance Computing Systems.

CHUNYI PENG

Assistant Professor

B.E., Automation, Tsinghua University, 2002; M.E,. Automation, Tsinghua University, 2005; Ph.D., Computer Science, University of California, Los Angeles, 2013.

Department Research Area: NETWORKING & DISTRIBUTED COMPUTING

Interests: Mobile Networks, Wireless Networks, Mobile Systems, Sensing and Wearable Computing, and Network Security.

FENG QIN

Associate Professor

B.E., University of Science and Technology of China, 1998; M.E., Chinese Academy of Sciences, 2001; Ph.D., the University of Illinois, Urbana-Champaign, 2006.

Department Research Area: SYSTEMS

Interests: Operating Systems; Software Reliability; Security and Distributed Systems.

LUIS RADEMACHER

Assistant Professor

Bachelor in Engineering Sciences, Mathematics, Universidad de Chile; Santiago, Chile, 2002; Mathematical Engineering Title (Masters Equivalent) Universidad de Chile. Santiago, Chile, 2002; Ph.D., Applied Mathematics, Massachusetts Institute of Technology, 2007.

Department Research Area: THEORY

Interests: High Dimensional Geometry; Random Structures; Matrix Approximation; Optimization.

ALAN RITTER

Assistant Professor
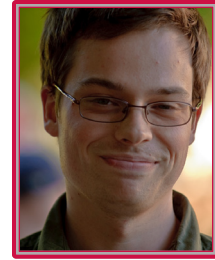
B.S./M.S., Computer Science, Western Washington University 2006; Ph.D., Computer Science and Engineering, University of Washington 2013.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Information Extraction, Text Mining, Computational Linguistics, Machine Learning.

Nicoleta Roman

Assistant Professor,
Lima Campus

B.S., Computer Science, University of Bucharest, Romania, 1996; M.S., Computer Science, University of Bucharest, Romania,1997; Ph.D., Computer Science and Engineering, The Ohio State University, Columbus, Ohio, 2005.

Department Research Area: ARTIFICIAL INTELLIGENCE

Research interests: Computational Auditory Scene Analysis; Binaural sound localization and separation; Automatic Speech Recognition; Machine Learning.

Nasko Rountev

Associate Professor
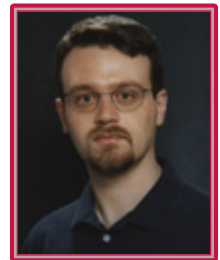
B.S., Computer Science & Engineering, Technical University, Sofia, Bulgaria, 1995; M.S., Computer Science, Rutgers University, 1999; Ph.D., Computer Science, Rutgers University, 2002.

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

Interests: Static and Dynamic Program Analysis; Programming Languages and Compilers; Software Understanding and Testing; High-Performance Computing.

P. (Saday) Sadayappan

Full Professor

B.S., Electrical Engineering, Indian Institute of Technology, Madras, India, 1977; M.S., Electrical Engineering, State of University of New York, Stony Brook, 1978; Ph.D., Electrical Engineering, State of University of New York, Stony Brook, 1983.

Department Research Area: SYSTEMS

Interests: Compiler/Runtime Systems For High-Performance Computing; Performance Optimization; High-Productivity, High-Performance Scientific Computing.

Han-Wei Shen

Full Professor

B.S., Computer Science, National Taiwan University, 1988; M.S., Computer Science, State University of New York, Stony Brook, 1992; Ph.D., Computer Science, University of Utah, 1998.

Department Research Area: GRAPHICS

Interests: Computer Graphics; Information Visualization; Parallel Visualization Scientific Visualization; Visual Analytics.

NESS B. SHROFF

Ohio Eminent Scholar of Networking and Communications Endowed Chair Professor

B.S., University of Southern California, 1988; M.S.E, University of Pennsylvania, 1990; M.Phil, Columbia University, 1993; Ph.D., Columbia University, 1994.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Wireless Networks; Next Generation Internet; Sensor Networks; Cloud Computing; Network Optimization; Network Design and Dimensioning; Network Security; Information Theoretic Security; Queueing Theory; Dynamic Control; Network Coding; Scaling Laws; Distributed Algorithms; Complexity and Approximability; Game Theory; Pricing.

ANASTASIOS SIDIROPOULOS

Assistant Professor

Professor Diploma, Computer Science, University of Patras, 2002; MS, Computer Science, Massachusetts Institute of Technology, 2005; PH.D., Computer Science, Massachusetts Institute of Technology, 2008.

Department Research Area: THEORY

Interests: Graph Algorithms, Computational Geometry, Metric Embeddings, Approximation Algorithms, Computational Topology.

PRASUN SINHA

Associate Professor

B. Tech., Computer Science and Engineering, Indian Institute of Technology, Delhi, India, 1995; MS, Computer Science, Michigan State University, 1997; PhD, Computer Science, University of Illinois, Urbana-Champaign, 2001.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Sensor Networking; Ad-hoc Networking; Mobile Computing; Wireless Networking.

PAUL A.G. SIVILOTTI

Associate Professor

B.Sc.H., Computing Science, Mathematics & Biochemistry, Queen's University, Ontario, Canada, 1991; M.S., Computer Science, California Institute of Technology, 1993; Ph.D., Computer Science, California Institute of Technology, 1998.

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

Interests: Distributed Systems; Software Engineering; and Tool-based Support for Testing Component Implementations.

Neelam Soundarajan

*Associate Professor and
Associate Chairperson*

B.S., Physics, Bombay University, India, 1970; M.S., Physics, Bombay University, India, 1972; Ph.D., Computer Science, Bombay University, India, 1978.

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

Interests: Software Engineering; Reasoning about Program Behavior; Specification; Verification; Testing; Issues in Engineering Education.

Kannan Srinivasan

Assistant Professor

B.S., Electronics & Communications Engineering, University of Madras, Chennai, India. 2000; M.S., Electrical & Computer Engineering, Oklahoma State University, 2002; Ph.D., Electrical Engineering, Stanford University, Stanford, CA, USA, 2010.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Wireless Networking, Low Power Wireless Systems, Communication Systems, Smartgrids and Wireless Security.

Christopher Stewart

Assistant Professor

B.S., Computer Science, Morehouse College, 2003; M.S., Computer Science, University of Rochester, 2005; Ph.D., Computer Science, University of Rochester, 2008.

Department Research Area: SYSTEMS

Interests: Operating Systems; Distributed Systems; Performance Management; and Power Management.

Kenneth J. Supowit

Associate Professor

B.A., Linguistics, Cornell University, 1978; Ph.D., Computer Science, University of Illinois, 1981.

Department Research Area: THEORY

Interests: Combinational Algorithms.

Radu Teodorescu

Assistant Professor

Dipl. Eng. in Computer Science, Technical University of Cluj-Napoca, Romania, 2002; M.S., Computer Science, University of Illinois at Urbana-Champaign, 2005; Ph.D., Computer Science, University of Illinois at Urbana-Champaign, 2008.

Department Research Area: SYSTEMS

Interests: Computer Architecture, with a Focus On Designing Energy Efficient and Reliable Microprocessors and Systems.

DeLiang (Leon) Wang

Full Professor

B.S., Computer Science, Beijing University, 1983; M.S., Computer Science, Beijing University, 1986; Ph.D., Computer Science, University of Southern California, Los Angeles, 1991.

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Machine Perception and Neurodynamics.

Huamin Wang

Assistant Professor

B.Eng., Computer Science and Engineering, Zhejiang University Hangzhou, China, 2002; M.S., Computer Science, Stanford University Stanford, CA, USA, 2004; Ph.D. in Computer Science Georgia Institute of Technology Atlanta, GA, USA, 2009.

Department Research Area: GRAPHICS

Computer Graphics, GPU Programming for High-performance Graphics and General-purpose Computation, Computer Vision, Feature Tracking, Optical Flow, 3D Reconstruction, Finite Element Method, Numerical Integration, Model Reduction, Motion Control and Design, Efficient Data Structures.

Yusu Wang

Associate Professor

B.S., Computer Science, Tsinghua University (P. R. China), 1998; M.S., Computer Science, Duke University, 2000; Ph.D., Computer Science, Duke University, 2004.

Department Research Area: GRAPHICS

Interests: Computational Geometry, Algorithms, Computational Biology, Computational Topology, Graphics, Modeling, And Visualization.

Rephael Wenger

Associate Professor

B.S.E., Computer Science, Princeton University, 1984; Ph.D., Computer Science, McGill University, 1988.

Department Research Area: GRAPHICS

Interests: Computational Geometry; Computer Visualization; Isosurface Reconstruction; and Image Processing.

Dong Xuan

Full Professor

B.S., Electronic Engineering, Shanghai Jiao Tong University, China, 1990; M.S., Electronic Engineering, Shanghai Jiao Tong University, 1993; Ph.D., Computer Engineering, Texas A&M University, 2001.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Distributed Computing, Computer Networks and Cyber Space Security.

Xiaodong Zhang

Chairperson of Computer Science & Engineering Robert M. Critchfield Professor

B.S., Electrical Engineering, Beijing University of Technology, 1982; M.S., Computer Science, University of Colorado at Boulder, 1985; Ph.D., Computer Science, University of Colorado at Boulder, 1989.

Department Research Area: SYSTEMS, NETWORKING and DISTRIBUTED COMPUTING

Interests: Data Management in Computer and Distributed Systems

Courtesy Appointments

Ümit V. Çatalyürek	Biomedical Informatics
Kun Huang	Biomedical Informatics
Michael Knopp	Radiology
Albert M. Lai	Biomedical Informatics
Tao Shi	Statistics
Xiaorui (Ray) Wang	Electrical and Computer Engineering
Cathy (Honghui) Xia	Integrated Systems Engineering
Alper Yilmaz	Civil, Environmental Engineering & Geodetic Science

Clinical Faculty

Jay Ramanathan

*Research Associate Professor
Director of Research of Center
for Experimental Research in
Computer Systems*

B.S. , Computer Science, Purdue University, 1970; M.S. in Computer Science, Purdue University, 1972; Ph.D. Computer Science, Rice University, 1977.

Research Interests: Analysis and Engineering of the Complex Adaptive Environments to achieve overall objectives, performance and Business-IT alignment. Related applications include Serious Gaming and technology-mediated collaborative platforms. Tools and methods of interest include knowledge mining, complexity theory, autonomic computing; technologies such as OWL, Middleware, Workflow, Mobile Computing, and Web Services.

Rajiv Ramnath

*Associate Professor of Practice
Director, Collaborative for
Enterprise Transformation and
Innovation (C.E.T.I.)*

B.Tech., Indian Institute of Technology, New Delhi, India, 1981; M.S., Computer & Information Science, The Ohio State University, 1983; Ph.D., Computer & Information Science, The Ohio State University, 1988.

Research Interests: Foundations of Adaptive Complex Enterprises, Enterprise Architecture and Engineering, Business-IT Alignment, Workflow and Work-Management Systems Enterprise Software Engineering and Computer Science Education, Wireless Sensor Network and Pervasive Computing Enterprise Applications, e-Government.

Emeritus Appointments

Professor Emeritus

Balakrishnan Chandrasekaran

Charles A. Csuri

Ming-Tsan (Mike) Liu

Sandy Mamrak

Mervin E. Muller

Bruce Weide

Stuart Zweben

Associate Professor Emeritus

Clinton R. Foulk

Douglas S. Kerr

Timothy Long

William F. Ogden

Rick Parent

Anthony E. Petrarca

Faculty Emeritus

James B. Randels
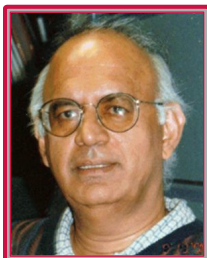
Visiting Associate Professor
Fabrice Jean-Emile Rastello

Visiting Scholars

Miao-Chen Chuo

Roshan Dathathri

Wenshang Dou

Qinghua Gu

Wei Han

Youquan Liu

Hong Luan

Abdullah Naralan

Changqun Wang

Fan Zhang

Kai Zhang

Xiaolei Zhang

Research Scientists

Balakrishnan Chandrasekaran
Senior Research Scientist
Professor Emeritus

B.E., Electrical Engineering, Madras University, India, 1963; Ph.D., Electrical Engineering, University of Pennsylvania, 1967.

Research Interests: Artificial Intelligence and Cognitive Science, specifically Knowledge Systems, Diagrammatic Reasoning, Cognitive Architecture, and Decision Support Systems.

Virginia A. Folcik-Nivar
Research Scientist

B.S., Biology, Cleveland State University, 1988; Ph.D., Regulatory Biology, Cleveland State University, 1993; B.S., Computer Science and Engineering, The Ohio State University, 2005.

Interests: Behavior of individual agents representing the basic cell types of the immune system leads to normal (protective) and pathological (injurious) behavior from the immune system as a whole.

Lei Guo
Research Scientist

Bachelor in Space Physics, University of Science and Technology of China; Masters in Computer Science, University of Science and Technology of China; Ph.D. in Computer Science and Engineering, The Ohio State University, 2007.

Research Interests: Distributed Systems, Measurement and Modeling Of Internet Services, and Big Data Analytics.
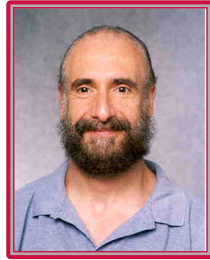
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Research Scientist

B.S. Electrical Engineering, Seoul National University, 1998; M.S. Biomedical Engineering, Seoul National University, 2002; Ph.D. Electrical Engineering, University of Pennsylvania, 2008.

Research Interests: Machine Learning, Computer Vision, Medical Imaging.

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Research Scientist

B.S., Mathematics, The Ohio State University 1968; M.S., Mathematics, The Ohio State University, 1970; Ph.D., Philosophy, The Ohio State University, 1982.

Research Interests: Artificial Intelligence; Computational Epistemology, Abductive Inference, Causal Reasoning, Multiple Criteria Decision Making, Perception, Information Fusion, Diagnosis, Theory Formation, Logic of Investigation and Foundations of Science.

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B.S., Mechatronics, Jingdezhen Ceramic Institute, 2000; M.S., Computer Science, Beijing University of Technology, 2003; Ph.D., Computer Science, Chinese Academy of Sciences, 2008.

Research Interests: Distributed and Parallel Computing Systems, Database Systems and Data Integration Systems, Computer Architecture and Storage Systems.

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B.S. Computer Science and Engineering, Massachusetts Institute of Technology, 2004; M.S. Electrical Engineering, Columbia University, 2006; M.Ph. Electrical Engineering, Columbia University, 2008; Ph.D. Electrical Engineering, Columbia University, 2010.

Research Interests: Machine Listening, Signal Processing, Machine Learning, Speech Recognition, Psychoacoustics.

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Jonathan L. Perkins - Systems Administrator

Hari Subramoni - Senior Research Associate & Engineer

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B.Phil., Miami University, 1978; M.S., Cornell University, 1980; M.S., Computer & Information Science, The Ohio State University, 1989; Ph.D., Computer & Information Science, The Ohio State University, 1995.
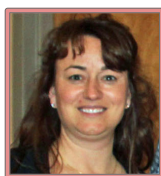
Christine Kiel

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B.A., Spanish, Ohio Wesleyan University, 1977; M.S., Computer and Information Science, The Ohio State University, 1986.

MICHELLE MALLON

Lecturer

B.A., Psychology, The Ohio State University, 1991; M.S. Social Work, The Ohio State University, 1999.

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S.B., Computer Science and Engineering, Massachusetts Institute of Technology, 1986; S.M., Computer Science and Engineering, Massachusetts Institute of Technology, 1986; Ph.D., Computer and Information Science, University of Pennsylvania, 1997.

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B.S., Mathematics and Computer Science, Bowling Green State University, 1996; M.A., Education, The Ohio State University, 1998; M.S., Computer Science and Engineering, The Ohio State University, 2007; Ph.D., Computer Science and Engineering, The Ohio State University, 2010.

KATHRYN REEVES

Lecturer

BCPE, Computer Engineering, Auburn University, 1986; M.S., Computer Science, Auburn University, 1991.

LORI RICE

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B.S., Information Systems, Ohio Dominican College; M.A., Workforce Development and Education, The Ohio State University.

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Senior Lecturer

B.S., Applied Mathematics & Computer Science, Carnegie Mellon University, 1990; M.S., Computer & Information Science, The Ohio State University, 1992; Ph.D., Computer Science & Engineering, The Ohio State University, 2005.

ANATALA T. WOLF

Lecturer

B.A., Psychology, University of Illinois, Springfield; B.S., Computer Science, The Ohio State University; M.S., The Ohio State University, 2013.

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Moez Chaabouni

Matt Curtin

Roman Ilin

Praveen Kumar

Robert Mathis

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Christopher P. Domas
Clair Farris
Charles Giles
George Michael Green
Steve Gomori
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Catherine McKinley
Bhuvarahamur Narasimhan

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Steven Romig
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D. John Thomas
Parker C. Wiksell

STAFF

Administrative Staff

Catrena Collins - Human Resources Generalist

Tamèra Cramer - Public Relations Coordinator

Don Havard - Fiscal Officer

Michelle Janney - Reception and Travel Coordinator

Z. Lynn Lyons - Graduate Admissions and Graduate Studies Coordinator

Kathryn Reeves - Academic Program Administrator

Carrie Stein - Grants Administrator

Computing Services Staff

Joseph Coe - Operations Specialist

Michael Compton - Director, Computing Services

Aaron Jenkins - Network Operations Specialist

Bob Joseph - Software Specialist

Tami King - Software Specialist

Dave Kneisly - Computer Operations/ Network Manager

Todd Lucal - Systems Manager

Jeff Moser - Windows Administrator

Shaun Rowland - Manager, Software Support and Development

Ted Welch - Systems Manager

Neil, a 2nd year, Molecular Genetics student, caught this double rainbow display over the Ohio Union.

(image courtesy of OSU: Image of the Day.)

THE OHIO STATE UNIVERSITY

COLLEGE OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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