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.
## Contents

### News & Highlights
- Message from the Chair .......................... 1
- News and Awards .................................. 3
- CSE 22nd Annual Awards Banquet ............... 11

### Grant Funding 2017-2018
- New Grants Received in 2017-2018 Year .......... 13

### Guest Speakers and Distinguished Guest Lecturers
- Guest Speakers and Distinguished Guest Lecturers .. 18

### Students
- The Graduate Program .............................. 20
- PhD Degrees Granted .............................. 21
- Masters Graduates .................................. 24
- Undergraduate Program ............................ 28
- 2016 - 2017 Bachelors Graduates ................. 29

### Faculty, Scientists & Staff
- Tenured & Tenure Track Faculty .................. 39
- Emeritus Appointments ............................ 49
- Clinical Faculty ..................................... 50
- Courtesy Appointments ............................ 50
- Research Scientists ................................ 51
- Post-Doctorate Researchers ......................... 51
- Research Staff ...................................... 51
- Lecturers ........................................... 52
- Part-time Lecturers .................................. 54
- Visiting Scholars ................................... 55
- Staff .................................................... 55

---

Department of Computer Science and Engineering  
The Ohio State University  
2015 Neil Avenue 395 Dreese Labs  
Columbus, Ohio 43210  
cse.osu.edu
Dear Colleagues, Friends, Parents, and all the CSE family members,

I would like send you a farewell message before I step down in the end of August, 2018. I have been the Department Chair for 12 years in three terms, which is challenging, rewarding and enjoyable. I feel honored and privileged to have provided leadership for the faculty, staff, and students in our department.

Twelve years ago, I accepted the Chair position with a focused but challenging goal: to build a world-class Computer Science and Engineering Department at The Ohio State University. I am proud of what we have achieved during my chairmanship towards this goal. There are many challenges in daily operations to run the department. Addressing these administrative issues is not the goal but a vehicle for us to promote the excellence of human resources of both faculty and students, which is a key role for a world-class department.

We have worked hard to make a cultural change in the way to reward faculty to inspire students in classroom teaching, and to pursue research of high impact and significant contributions. I strongly believe that a world-class department has the following two common qualities. First, the faculty and students conduct high quality and high impact research. Second, the department provides an exciting learning environment for students, and many graduates distinguish themselves to become leaders in academia, industries and government.

During the last 12 years, we have hired 26 new faculty members, bringing young and new energy in diverse areas to the department. The department faculty has been well recognized in the nation and in the international research community, including 18 NSF Career Awards, 1 DOE Career Award, and 2 IEEE ICDE Raising Star awards for young faculty, 7 ACM and IEEE Fellows, and 3 University Distinguished Scholars for senior faculty. Our research expenditure has been more than doubled at an annual rate of $11 million. Multiple research projects have made big impact by laying theoretical foundations and by advancing production and industrial systems. We have supervised more than 300 Ph.D. dissertations, which is more than half of the total number of Ph.D. graduates in 50 years of the CSE history.

Undergraduate enrollment has been more than doubled in three majors: CSE, CIS and the newly created major of data analytics. The annual number of graduates in these three majors are over 400. The extra curriculum activities are rich with the annual Hackathon event, the ACM-W group for women and under-representative minority students, and with many technical clubs. We have also raised $1.5 million endowment funds, which have all been used for student scholarships. Our faculty has been excellent in teaching, with numerous distinguished teaching awards from the department, the college, the university and from foundations outside the university.
We have built a strong consensus for the main focus of the department: to spiritually, intellectually and technically prepare our students before they enter the real world, and to make research breakthroughs that advance the knowledge and technology in the fields. It has been a great 12 years, and all the accomplishments we have made come from our strong faculty, our dedicated and professional staff, and our excellent students. I thank the CSE faculty for giving me the opportunity to lead the department with the help of staff members in such a long term, and thank alums and friends for their strong support and care to me and to the department.

I look forward to becoming a regular faculty again devoting full-time on teaching and research. Please continue to stay connected with us, and keep us informed about your progress. Your support and your distinguished accomplishments are vital to the continuing success of CSE at Ohio State.

Sincerely,

Xiaodong Zhang
Chair and Robert M. Critchfield Professor
Computer Science and Engineering
On March 3, 2018, during a full CSE faculty meeting, a group of University leaders from the Office of Research and the Office of Provost unexpectedly entered Dreese Lab 480 and announced that CSE Professor Sadayappan had been selected to be one of the six University Distinguished Scholars this year. This annual award is given to a small number of top professors for their exceptional scholarly accomplishments. CSE faculty members were surprisingly pleased with this ceremony because they consider Saday truly deserves this award. Saday’s wife and daughter came to join the celebration.

Two major products determine the distinguished level of a university: the impact of faculty scholarships and the excellence of the graduated students. Saday has made great contributions for these two products at The Ohio State University. Saday joined the CSE department in 1983 (35 years ago) as an assistant professor. He has graduated more than 40 Ph.D. students. Many of them are academic and industrial leaders including an Intel Fellow, an IBM Fellow, and a Distinguished University Professor. Saday is also an outstanding teacher, and has received several teaching awards. Saday is internationally renowned for his research on compilers for high-performance and parallel computing. His nomination was supported by a group of distinguished experts in his field. One expert says, “Saday has established a well-deserved reputation among his national and international peers as a stellar researcher in high-performance computing who pursues innovative approaches to persisting problems of productivity and programmability in the field.” Another one states, “Saday has been one of the most highly influential, innovative and productive researchers in enhancing productivity while enabling a high level of performance in high-performance computing for over 30 years, in addition to outstanding teaching, mentoring and service to the profession and community.”

Saday is the third Distinguished Scholar since 2014 within the CSE department after Leon Wang and DK Panda. In the ceremony, Department Chair Xiaodong Zhang commented on the three distinguished colleagues by three common traits: “First, all of them grew from the grass roots as assistant professors in this department. Second, each of them is best known in their fields for significant contributions. Finally, they are all working very hard in a persistent way because they aim for big impact.” Congratulations to Saday on this honor.

Pictured from left to right: Dr. Leon Wang, Professor in CSE; Dr. Xiaodong Zhang, CSE Department Chair; Valli Sadayappan, wife of Saday; Dorota Grejner-Brzezinska, Assoc. Dean for Research; Shambavi Sadayappan, daughter to Saday; Janet Weisenberger, Senior Associate VP for the Office of Research Faculty; Dr. P. (Saday) Sadayappan; Kay Wolf, Vice Provost for Academic Policy and Faculty Resources; Dr. Randy Moses, Interim Senior VP for Research
NSF Faculty Early Career Development (CAREER) Award to Prof. Yinqian Zhang

The National Science Foundation has awarded CSE Assistant Professor Yinqian Zhang a Faculty Early Career Development (CAREER) Award for his research entitled Taming the Side-Channel Hazards in the Shielded Execution Paradigm. In conjunction with the award, Yinqian will receive $500,000 to support his research --- an investment that according to the NSF will help young scholars build a foundation for “a lifetime of leadership in integrating education and research.”

Yinqian’s five-year project will explore novel ways to address side-channel threats in the emerging shielded execution paradigm, such as Intel’s Software Guard Extension (SGX). SGX is a hardware extension that provides software applications against compromised operating systems. However, recent studies have shown that SGX is vulnerable to side-channel threats, in which the system software measures the programs’ use of system resources or micro-architectural resources to infer their secrets. Yinqian’s research will develop novel principles and techniques to detect side-channel vulnerabilities in SGX software and thwart side-channel attacks at runtime. This research project will accelerate the broader acceptance of the shielded execution paradigm and the SGX technology. The research will also promote awareness of side-channel hazards to students, researchers, industry partners, and the general public, and hence motivate the adoption of the side-channel defense techniques in real-world applications.

Before joining the department in 2015, Yinqian received his Ph.D. in computer science from the University of North Carolina at Chapel Hill. His research focuses on system security, cloud security, and side-channel security.

The Faculty Early Career Development (CAREER) Program offers the National Science Foundation’s most prestigious awards in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations. Such activities aim to build a firm foundation for a lifetime of leadership in integrating education and research.

---

2018 IEEE Technical Committee on Data Engineering Early Career Award

Spyros Blanas, Assistant Professor in CSE, was awarded the 2018 IEEE Technical Committee on Data Engineering Early Career Award for his contributions to high-performance database management systems. The Computer Science and Engineering Department is the only department to receive two such awards.

This award is based on an individual’s whole body of work in the first 5 years after the PhD. The award aims to promote current database researchers as they create their career.
Wei Xu Named CrowdFlower AI for Everyone Challenge Winner

AI platform for data science and machine learning CrowdFlower announced on Wednesday the third round winners for its $1 million “AI for Everyone” Challenge. Assistant professor Wei Xu in Computer Science and Engineering is named one of the two winners. Her winning project, LanguageNet, will create multilingual data and enable deep learning techniques for cutting-edge natural language processing research. The other winning project is on studying hate speech by a team of researchers from multiple institutions, including Stanford and Cornell University.

Wei Xu’s research group will leverage crowdsourcing and deep learning techniques to build a database of synonymous expressions. As long, complex ideas can be stated in a variety of ways, current natural language processing algorithms have a tough time understanding them. But building a corpus of synonymous phrases and meaning representations will be a big step forward for understanding the ever evolving human language. Wei and her team have made some great progress on their algorithms and methodology already. The problem? --- Deep learning algorithms are data hungry. The LanguageNet project will crowdsource human annotations for different languages at a large scale, through the help of CrowdFlower, and then train deep learning models to identify semantic relations. More about the story: https://www.crowdflower.com/announcing-q4-ai-everyone-winners/

The “AI for Everyone” Challenge was created by CrowdFlower to help advance cutting-edge Artificial Intelligence projects. The challenge is granting eight awards to companies, organizations or individuals using AI to solve critical problems. Selection is based on the innovation of the project, its importance to the advancement of AI and the overall potential impact of the proposed initiative.

Alum Elected Fellow of the Association for the Advancement of Artificial Intelligence (AAAI)

Wright State University Professor Amit Sheth, Ph.D. (‘85, MS ‘83), has been elected a Fellow of the Association for the Advancement of Artificial Intelligence (AAAI) for a decade or more of “significant and enduring contributions to semantics and knowledge-based techniques to transform diverse data into insights and actions.”

Sheth’s research has pioneered the development and use of knowledge graphs to enhance AI techniques of machine learning and natural language processing for making sense of Big Data. This research has impacted individual and public health, biomedicine, social good, finance, advertising/marketing, and manufacturing.

Sheth has been an educator, researcher, and entrepreneur who has been among the top 100 computer science and electronics researchers based on h-index. He has been a principal investigator of more than $27 million in competitive grants and has founded three successful companies based on licensing his university research. He went to Wright State in 2007 as the LexisNexis Ohio Eminent Scholar and is the executive director of Kno.e.sis, the Ohio Center for Excellence in Knowledge-Enabled Computing.
HackOHI/O, the largest of the OHI/O events, took place the weekend of October 21-22, 2017 and challenged students to ‘build something amazing’ during this 24-hour event, students worked together to code and create software designed to address ongoing issues in society.

Over 660 participants worked in groups and individually throughout the weekend, overflowing capacity of the Ohio Union ballroom. Over half of the participants classified themselves as “first time hackers”. There were 132 women participants, demonstrating an increase over last year’s event, nearly hitting the 20% mark.

There were 50 mentors on hand to assist students if they ran into technical problems, by using the HELPq app to help break the ice and encourage students to seek help instead of giving up. The 70 judges decided the top eight “Best Of” teams. These teams were judged on creativity, technical difficulty, functionality, impact and team work. Prizes were awarded by various sponsors of the event, such as JP Morgan Chase, Wexner Medical Center, Teradata, Root Insurance, Eaton and others.

This year’s event was organized by new Program Director, Julia Armstrong, along with heavy student involvement from university groups including Buckeye Hackers, Open Source Club, Electronics Club, ACM-W, Mobile App Club, College of Engineering, Department of Computer Science & Engineering, Department of Electrical & Computer Engineering, University Libraries, Engineering Career Services, OCIO and the Office of Distance Education and eLearning, and Translational Data Analytics Institute. Other campus partners included the Innovation Studio, Department of Engineering Education, College of Education and Human Ecology, the STEP Maker Program, and the Toy Adaptation Program.

The two faculty advisors for this annual event are CSE professor Arnab Nandi and Library professor Meris Mandermnach. CSE Chair Xiaodong Zhang gave the opening speech and started the 24-hour hack by lighting the countdown clock.
More than 100 years ago, Henry Ford asked his future customers about their expected transportation products. The consistent answer was that they wanted to have faster horses. If we consider conventional computers as the engine of horses, they are no longer running faster today for three reasons. First, the Moore’s Law is ending due to the physical limit, thus the CPU speed would not be raised periodically. Second, Conventional processor chips are designed for general-purpose computing, which have shown their increasingly low efficiency in both performance and power. Finally, on top of the general-purpose microarchitecture, we have built a deep software stack from instruction set all the way to the programming interface. Although this stack creates a flexible programming environment for various applications, it also adds increasingly high and unnecessary processing overhead. Our computing ecosystem in both hardware and software is in a critical transition time from a general purpose of “one size fits all” platform to diverse, specialized, and customized platforms.

Professor Xiaodong Zhang moderated and participated in a panel of Future Computing and a dialogue with the public in the Future Forum Annual Conference in Beijing, China on October 28-29, 2017. The panel consists of a group of distinguished computing experts in both hardware and software and one venture capital investor from the US. CMOS is a powerful technology to build integrated circuits for various chips including processor chips. The discussions and presentations in the panel included new research and technology within CMOS, such as specialized hardware accelerations by GPU, FPGA, RDMA, ASIC and others, and research beyond CMOS, such as quantum computing and DNA storage. The panelists also conducted a dialogue with the public including high school students who are interested in science and computing.

More than 2,000 people attended the Future Forum, and over 7 million viewers watched the event online through 10 streaming platforms in China. More than a million K-12 students engaged in the online discussions, including the Future Computing panel.

Pictured Above: Future Computing Panelists from left to right: Xiaodong Zhang (Ohio State), Luis Ceze (University of Washington), Jason Cong (UCLA), Kai Li (Princeton), Margaret Martonosi (Princeton), Yuan Xie (UCSB), and Kui Zhou (Sequoia Capital).
In this year’s election for the IEEE Signal Processing Society Speech and Language Technical Committee, Professor Eric Fosler-Lussier was elected Vice Chair for 2018, rotating into the Chair position for 2019-2020. The committee has 50+ members and helps to organize all speech and language processing activities within the IEEE. Members of SLTC are elected by the committee among the most active and accomplished researchers and technologists in the field.

The Speech and Language Processing Technical Committee (SLTC) extends its influence to the technical areas of speech and language processing. Besides the typical activities in which all of TCs are involved, the main focus of the committee is the organization of technical sessions related to speech and language technologies at ICASSP. Other activities include the selection of proposals for workshops such as ASRU Workshop (Automatic Speech Recognition and Understanding), SLT Workshop (Spoken Language Technologies), and Odyssey, the Speaker and Language Recognition Workshop.

Speech and Language processing is assuming a very relevant role in today’s industry. Speech recognition, text to speech synthesis, spoken language understanding, speech to speech translation, spoken dialog management, speech indexing, information extraction, and speaker and language recognition are only a few examples of the range of interests in this area of science and technology. Their applications are being adopted in different markets in a variety of industrial, scientific, and commercial contexts. Academic and industrial research is continuously pushing the state of the art forward to reach new heights of performance and accuracy in speech and language processing by machines, and to grow our knowledge of human spoken language.

As part of the IEEE Signal Processing Society, the Speech and Language Technical Committee (SLTC) promotes and influences all the technical areas of speech and language processing. Besides the typical activities in which all IEEE Technical Committees are involved, the main focus of the SLTC is the organization of the technical sessions in the related areas at the annual International Conference on Acoustics, Speech, and Signal Processing (ICASSP). As an example of the level of interest of the signal processing community in speech and language processing, 24% of the nearly 3000 papers presented at ICASSP 2007 were in technical areas of competence of the SLTC. Other committee activities include the selection of proposals and the organization of technical workshops such as ASRU (Automatic Speech Recognition and Understanding), SLT (Spoken Language technologies), and Odyssey, the Speaker and Language Recognition Workshop. Moreover, SLTC is actively involved in establishing liaisons with other non-IEEE organizations in related areas, such as ISCA and ACL.
Side-Channel Security Research makes Impact in the Industry

A paper, titled “OS-level Side Channels without Procfs: Exploring Cross-App Information Leakage on iOS”, authored by Xiaokuan Zhang, a CSE student and Prof. Yinqian Zhang (in collaboration with researchers at the Indiana University) was published at The Network and Distributed System Security Symposium (NDSS) 2018 on Feb 18th. The paper studied information leakage in iOS and showed that a malicious iOS app can extract sensitive information from other apps. This attack violates Apple’s security policy of isolating apps in their own sandbox. The findings were discussed with Apple (before publishing the paper) several times during the second half of 2017. The issues identified in the paper have been acknowledged by Apple in CVE-2017-13852 (https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-13852), CVE-2017-13873, CVE-2017-13877. Some countermeasures presented in the paper have been implemented in iOS 11 and MacOS High Sierra 10.13 and later versions. Contributions have been acknowledged by Apple: https://support.apple.com/en-us/HT208112.

Students, Guoxing Chen, Sanchuan Chen, and Yuan Xiao, Prof. Yinqiang Zhang, Prof. Zhiqiang Lin, and Prof. Steve Lai, have posted a paper on Arxiv.org on a study of Spectre attacks against Intel SGX. The work has been broadly reported by many IT media (if you search SgxPectre attacks in Google) and the attack resulted in an update of the Intel SGX SDK on March 16, 2018. A CVE number is assigned to the problem: CVE-2018-3626. A security advisory has been posted on the Intel’s website: https://security-center.intel.com/advisory.aspx?intelid=INTEL-SA-00117&languageid=en-fr.

Two Best Papers from Prof. Shen’s Research Group

Prof. Shen’s research group has recently won two best paper awards in top visualization and data analytics conferences. One is the best paper award in IEEE Pacific Visualization 2018 conference, and the other is the best paper honorable mention award in ACM SIGGRAPH Asia Symposium on Visualization. The first paper entitled “GANViz: A Visual Analytics Approach to Understand the Adversarial Game”, authored by CSE Ph.D. student Junpeng Wang, Prof. Shen and their co-authors, proposed a visual analytics system, named GANViz. The system can open the black box of deep generative neural networks and help deep learning experts to effectively interpret their models. With the promising results demonstrated in the paper, their work made an important and practical step towards explainable artificial intelligence. In the second paper entitled “Winding Angle Assisted Particle Tracing in Distribution-Based Vector Field”, authored by CSE Ph.D. student Cheng Li and Prof. Shen, proposed a new method to trace particles in uncertain vector field. Using the Bayes Theorem, the tracing task treats the previous step as a prior condition, and computes a posterior distribution of the next tracing direction. The posterior distribution conducts better prediction of the particle, compared to baseline methods. Recently, Prof. Shen’s research group also won the best paper honorable mention award in IEEE Visualization 2017, the very top conference in his field.
Wei-Lun (Harry) Chao is a Computer Science PhD candidate at University of Southern California, working with Fei Sha. His research interests are in machine learning and its applications to computer vision and artificial intelligence. His recent work has focused on transfer learning towards vision and language understanding in the wild. His earlier research includes work on probabilistic inference, structured prediction for video summarization, and face understanding.

Professor Chao will be joining the CSE department in Fall 2019 as an Assistant Professor.

Pooya Hatami is a postdoc at the University of Texas at Austin, hosted by David Zuckerman. He has broad interest in theoretical computer science. His most recent works are in constructions of pseudorandom generators for various classes of Boolean functions. Pooya received his PhD in computer science from the University of Chicago advised by Alexander Razborov, where he was awarded the Bryan and Catherine Daniels Outstanding Student Fellowship and the McCormick Fellowship. He later spent two years as a joint postdoc between the Institute for Advanced Study at Princeton and DIMACS at Rutgers University before moving to Austin.

Professor Hatami will be joining the CSE department in the Fall of 2019 as an Assistant Professor.

Yu Su is a Ph.D. candidate in Computer Science at University of California, Santa Barbara. He obtained his bachelor’s degree in Computer Science from Tsinghua University in 2012. His research intersects are in the areas of data mining and natural language processing, towards the overarching goal of enabling seamless access to massive and heterogeneous data. His recent research includes natural language interfaces (to knowledge bases, relational databases, APIs, etc.) and knowledge base construction from text. He has regularly published and served in top venues of both data mining and natural language processing. His recent service includes being PC co-chair of the first workshop on Knowledge Base Construction, Reasoning and Mining at WSDM’18. He has interned at Microsoft Research Redmond, IBM T.J. Watson Research Center, and U.S. Army Research Laboratory.

Professor Su will join the CSE department in Fall 2018 as an Assistant Professor.
22nd Annual Departmental Awards

Scholarships

Central Ohio Chapter of Association of Computing Machinery (ACM)
Cerys Hughes

Ernest William Leggett, Jr. Scholarship, The Leggett Family Award Endowment Fund
Hayden Conley
Frank Meszaros

Founders of the Computer Science and Engineering Department Scholarship Endowment Fund
Joel Wong
Minrui Yang

The Ganobcik Family/Genesis Endowed Scholarship Fund for Computer Science
Zachary Davis
Zachery McGuckin
Tyler Terbrack

The O’Connell Family Award
Daniel Herr

Ten-Hwang Lai Scholarship
Levi Klingler
Logan McPherson

Steve R. and Sarah O’Donnell Computer and Information Science Fund
Brandon Amdur
James Finefrock
Sina Lewis
Swathi Pillalamarri
Srinidhi Srinivas
Michael Trunk

Wael Bahaa-El-Din Scholarship
Jonathan Huang

Women in Computer Science Scholarship
Sarah Flanagan
Yiqing Zhang

Nationwide Scholarship
Nicholas Male

Michael and Dina Morell Scholarship Fund
Cody Craig
Bo Liu
Stephen Wu
Danqi Yuan

Alumni Undergraduate Scholarships
Michael Braun
Yule Huang

CSE Undergraduate Scholarship
Nathan Balli
Haomin Gui
Caleb Lehman
Jarrod Manguiat
Yifan Song

Matt J. Desch & Ann M. Murphy Award
Nishant Rimal
Vilas Weinstein

Crowe Horwath Scholarship
Jared Frees

Undergraduate Research Award
Muhammad Akbar
Mohit Deshpande

Department Awards

B. Chandrasekaran & Sandra Mamrak Graduate Fellowship
Jiongqian (Albert) Liang

Wael Bahaa-El-Din Scholarship on Performance Analysis of Computer Systems
Peng Jiang

Eleanor Quinlan Award
Robert LaTour

Outstanding Teaching Award
Doreen Close
Dr. Mike Bond
Dr. Feng Qin

Outstanding Service Award
Dr. Xiaodong Zhang

Lutron Foundation

Joel and Ruth Spira Excellence in Education Leadership Award from Lutron Electronics
Dr. Xiaodong Zhang

Pictured Left: Dr. Rafe Wenger presents the Outstanding Teaching Award to Doreen Close, Dr. Mike Bond, and Dr. Feng Qin
Pictured Right: Dana Vantrease, CSE Advisory Board Member, presents the Alumni Undergraduate Scholarships to Michael Braun, Yule Huang, and Danqi Yuan
Undergraduate enrollment has increased 122% (over 2,000 students in three majors: CSE, CIS, and Data Analytics) and annual undergraduate majors graduates increased 138% (over 400). The department has graduated more than 3,000 undergraduate majors since 2006, which is more than 40% of the total number of majors in the 50 year CSE history.

$1.5M endowment funds have been raised as named scholarships to support undergraduate and graduate students.

Xiaodong also received a department service award presented at the banquet and he thanked the support and the honor given by colleagues and the Lutron Foundation. He said “All these accomplishments come from the talents, leaderships, hardworking, and collaborations among the students, staff members and the faculty. Keeping the current momentum, CSE will move to another level in the next 5-10 years.”

In addition to his busy administrative and professional service duties, Xiaodong has maintained a high profile research program. While the intellectual pursuit still maintains prominence in his research, Xiaodong also strives to transfer his research into advanced technology to impact general-purpose computing systems in both hardware and software. Several technical innovations and research results from his research group have been widely adopted in commercial processors, major operating systems and databases, and distributed systems. Among his list of Ph.D. graduates, 7 men and women have become faculty members in universities in the US, and 6 of them have received NSF Career Awards and DOD YIP award.

Xiaodong’s scholarship and leadership have been well recognized in the fields. He was named as IEEE Fellow (Institute of Electronics and Electrical Engineers) for his contributions to computer memory systems in 2009, and was named as ACM Fellow (Association for Computing Machinery) for his contributions to data and memory management in distributed systems in 2012. He received a Distinguished Engineering Alumni Award from University of Colorado at Boulder in 2011.

On April 19, 2018, at the annual CSE awards banquet, CSE Chair Xiaodong Zhang received Joel and Ruth Spira Excellence in Education Leadership Award. Lutron representative Will Howe presented the award to Xiaodong who is finishing his three terms of department chair and will return to his full-time faculty position.

Established with an endowment by the Lutron Foundation in honor of the company’s founders, the award recognizes professors in a selected group of top universities with excellent engineering programs, including CMU, Cornell, Georgia Tech, Michigan, MIT, Notre Dame, Ohio State, Penn State, and Purdue, for their accomplishments in teaching and education leaderships.

Xiaodong was selected to chair the department in 2006 after a national search of two years. He joined the department from the College of William and Mary, where he was the Lettie Pate Evans Professor and Computer Science Department Chair. Since he became the Department Chair here, great changes have been taken place in CSE at Ohio State. In Mr. Howe’s award presentation, he gave the following impressive numbers:

- 26 new faculty members have been hired since 2006, including several women and under representative minority members. More than half of the current tenure-track faculty in the department joined the department after 2006.

- 18 young faculty members received NSF Career Awards. The total number of the NSF Career awards in the department is 28, which is the highest record at Ohio State.

- 6 senior faculty members were elected to become Fellows of ACM and IEEE.

- Three senior faculty members are named as University Distinguished Scholars.

- Annual faculty research expenditure from external grants has been more than doubled and reached to $11M in 2017-18.

- The department’s graduate program is highly selective and is one of the largest in the college. More than 300 Ph.D. students have been graduated since 2006, which is more than half of the total number of Ph.D. graduates in the entire CSE history of 50 years.

- The Computer Science graduate program ranking and Computer Engineering graduate program ranking have been steadily improved. In 2006, the computer engineering ranking was #23 by a score of 3.3. In the most recent ranking, the computer engineering ranking is #17 by a score 3.6. In 2006, the computer science ranking was #34 by a score of 3.2. In the most recent ranking, the computer science ranking is #30 by a score of 3.4.
New Grants Received in 2017-2018 Year

In order by name of CSE Investigator. CSE member names are in bold.

Legend:
CSE Researcher
Funding Source
Grant Title
PI: Principal Investigator
Co-PI: Collaborators (when applicable)
Term of Grant
Total Funding

**Spyros Blanas**

NSF
RIDIR: Survey data recycling: New analytic framework, integrated database, and tools for cross-national social, behavioral and economic research
09/01/2017- 08/31/2021
PI: Jenkins
Co-PI: Blanas, Dubrow, Shen, Slomczynski
$1,402,259

**Jian Chen**

Transferred Awards:
Nat Inst of Standards & Tech
Understanding immersive metrology datasets; Scientific and information visualization integration and hybrid input
05/01/2018- 04/30/2019
PI: Chen
$81,022.34

**Eric Fosler-Lussier**

BETHA
Compact Browser-Based Reading Verification for Early Childhood Reading Fluency
07/01/2018- 06/30/2020
PI: Fosler-Lussier
$55,682

**Zhiquang Lin**

Univ of Texas at Dallas (ONR subaward)
Final Second: Feature identification, neutralization, and automated de-Layering for securing code on demand
01/01/2018- 09/30/2020
PI: Lin
$808,383

Transferred Awards:
NSF
TWC: Medium: Collaborative: Systems, tools, and techniques for executing, managing, and securing SGX programs
01/01/2018- 12/31/2018
PI: Lin
$461,467

NSF
EDU: Collaborative: Using virtual machine introspection for deep cyber security education
04/01/2018- 08/31/2018
PI: Lin
$110,883

**Tamal Dey**

NSF
TRIPODS: Topology, geometry, and data analysis (TGDA@OSU): Discovering structure, shape, and dynamics in data
10/01/2017-09/30/2020
PI: Dey
Co-PIs: Kahle, Kurtek, Memoli, Sivakoff, Yusu Wang
$1,500,000

**Jim Davis**

Battelle Memorial Institute (Air Force)
Context-based object classification
05/01/2017- 05/31/2018
PI: Davis
$200,000

**Transfered Awards:**
NSF
CAREER: A Dual-VM Binary Code Reuse Based Framework for Automated Virtual Machine Introspection
01/01/2018- 08/31/2020
PI: Lin
$487,970

NSF
SDI-CSCS: Collaborative Research: S2OS Enabling Infrastructure-Wide Programmable Security with SDI
01/01/2018- 08/31/2020
Pl: Lin
$400,000

Raghu Machiraju
OH Department of Higher Education
Mining and Mapping of Data Analysis Research at Ohio State University to determine alignment
11/01/2017- 06/30/2018
Pl: Machiraju
$17,500

Haier Group
Improving service quality with translational data analytics
10/01/2017- 02/28/2018
Pl: Allen
Co-PI: Machiraju, Parthasarathy, Ramnath
$51,902

NSF
SCC-Planning: Using innovations in big data and technology to address the high rate of infant mortality in greater Columbus Ohio
09/01/2017- 08/31/2018
Pl: Machiraju
Co-PIs: Browning, Lynch, Volakis
$100,000

Arnab Nandi
Agency for Healthcare Res & Quality
The institute for the design of environments aligned for patient safety (IDEA4PS)
09/01/2018- 08/31/2019
Pl: Moffat-Bruce
Project Personnel: Nandi
$3,963,276

Nat Inst of Allergy & Infectious Diseases
Automation and multi-site validation of a personalized empiric antibiotic advisor
09/01/2018- 08/31/2019
Pl: Hebert
Project Personnel: Nandi
$1,942,492

Honda R&D Americas, Inc
Human-in-the-loop guided visualization and analytics
01/08/2018- 01/01/2019
Pl: Nandi
$142,989

Oregon State Univ (NIH subaward)
Biomedical data translator technical feasibility assessment of reasoning tool
12/29/2017- 12/28/2018
Pl: Nandi
$54,477

Ohio Third Frontier Entrepreneurial Signature Program 2017-2019
09/01/2017- 08/31/2018
Pl: Nandi
$100,000

DK Panda
Lawrence Livermore National Laboratory
An infrastructure for performance engineering using the MPI tools interface
11/03/2017- 11/02/2018
Pl: Panda
Co-PI: Subramoni
$120,000

NSF
Student Travel Support for MVAPICH User Group (MUG) Meeting
08/15/2017 – 07/31/2018
Pl: Panda
Co-PI: Subramoni
$10,000

NSF
SI2-SSI: Collaborative Project: FAMII: High performance and scalable fabric analysis, monitoring and introspection infrastructure for HPC and Big Data
07/01/2017- 06/30/2020
Pl: Panda
Co-PIs: Lu, Subramoni, Tomko
$800,000

Univ of Texas at Austin (NSF subaward)
Stampede 2: Operations and maintenance for the next generation of peta-scale computing
10/01/2017- 09/30/2021
Pl: Panda
$600,000

Mellanox Technologies, Inc
Research on high performance and scalable MPI over InfiniBand.
04/01/2016- 03/31/2018
Pl: Panda
$216,070 (new funds not previously reported)
<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Funding Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gifts</strong></td>
<td>NVIDIA Corporation</td>
<td>$161,000</td>
</tr>
<tr>
<td></td>
<td>Intel Corp</td>
<td>$64,741</td>
</tr>
<tr>
<td></td>
<td>Coventry Computer</td>
<td>$114,000</td>
</tr>
<tr>
<td><strong>Srinivasan Parthasarathy</strong></td>
<td>Haier Group/</td>
<td>Improving service quality with translational data analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10/01/2017- 02/28/2018</td>
</tr>
<tr>
<td></td>
<td>PI: Allen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co-PI: Machiraju, Parthasarathy, Ramnath</td>
<td>$51,902</td>
</tr>
<tr>
<td></td>
<td>Haier Group/</td>
<td>Improving service quality with translational data analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10/01/2017- 02/28/2018</td>
</tr>
<tr>
<td></td>
<td>PI: Allen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co-PI: Machiraju, Parthasarathy, Ramnath</td>
<td>$51,902</td>
</tr>
<tr>
<td></td>
<td>Honda North America, Inc</td>
<td>Ladder logic fault analysis acceleration</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09/01/2017- 05/31/2018</td>
</tr>
<tr>
<td></td>
<td>PI: Parthasarathy</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$57,448</td>
</tr>
<tr>
<td></td>
<td>NSF</td>
<td>SHF: EAGER: HI-HDFS - Holistic I/O optimizations for the Hadoop distributed filesystem</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09/01/2017- 08/31/2018</td>
</tr>
<tr>
<td></td>
<td>PI: Blanas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co-PI: Parthasarathy, Yang Wang</td>
<td>$150,000</td>
</tr>
<tr>
<td><strong>Rajiv Ramnath</strong></td>
<td>Nationwide</td>
<td>Integrating telematics data with other data sources to develop models of driver risk</td>
</tr>
<tr>
<td></td>
<td></td>
<td>01/01/2018- 12/31/2018</td>
</tr>
<tr>
<td></td>
<td>PI: Ramnath</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$60,881</td>
</tr>
<tr>
<td></td>
<td>Astute Solutions</td>
<td>Information retrieval techniques for social customer relationship management (CRM) systems</td>
</tr>
<tr>
<td></td>
<td></td>
<td>01/01/2018- 12/31/2018</td>
</tr>
<tr>
<td></td>
<td>PI: Ramnath</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$54,431</td>
</tr>
<tr>
<td></td>
<td>Haier Group/</td>
<td>Improving service quality with translational data analytics</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10/01/2017- 02/28/2018</td>
</tr>
<tr>
<td></td>
<td>PI: Allen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co-PI: Machiraju, Parthasarathy, Ramnath</td>
<td>$51,902</td>
</tr>
<tr>
<td><strong>Alan Ritter</strong></td>
<td>Leidos (Army subaward)</td>
<td>Modeling the spread of information through social and knowledge graphs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>09/29/2017- 05/31/2019</td>
</tr>
<tr>
<td></td>
<td>PI: Ritter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co-PI: Xu</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$600,000</td>
</tr>
<tr>
<td><strong>P. Sadayappan</strong></td>
<td>Pacific Northwest National Laboratory</td>
<td>Efficient tensor transposition and contraction on GPUs</td>
</tr>
<tr>
<td></td>
<td></td>
<td>06/22/2017- 05/31/2018</td>
</tr>
<tr>
<td></td>
<td>PI: Sadayappan</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$50,000</td>
</tr>
<tr>
<td><strong>Han-Wei Shen</strong></td>
<td>Los Alamos Nat Lab (DOE subaward)</td>
<td>Visual analytics for large scale scientific ensemble datasets</td>
</tr>
<tr>
<td></td>
<td></td>
<td>02/05/2018-09/15/2021</td>
</tr>
<tr>
<td></td>
<td>PI: Shen</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$600,000</td>
</tr>
<tr>
<td></td>
<td>UT-Battelle LLC (DOE subaward)</td>
<td>A SciDAC institute for computer science and data</td>
</tr>
<tr>
<td></td>
<td></td>
<td>02/26/2018- 03/30/2020</td>
</tr>
<tr>
<td></td>
<td>PI: Shen</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$299,000</td>
</tr>
<tr>
<td><strong>NSF</strong></td>
<td>RIDIR: Survey data recycling: New analytic framework, integrated database, and tools for cross-national social, behavioral and economic research</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>09/01/2017- 08/31/2021</td>
</tr>
<tr>
<td></td>
<td>PI: Jenkins</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Co-PI: Blanas, Dubrow, Shen, Slomczynski</td>
<td>$1,402,259</td>
</tr>
<tr>
<td><strong>Ness Shroff</strong></td>
<td>Ulsan Nat Inst of Sci and Tech</td>
<td>Low-latency streaming system for AR/VR applications</td>
</tr>
<tr>
<td></td>
<td></td>
<td>01/01/2018- 12/31/2020</td>
</tr>
<tr>
<td></td>
<td>PI: Shroff</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>$279,717</td>
</tr>
<tr>
<td><strong>Chris Stewart</strong></td>
<td><strong>Yusu Wang</strong></td>
<td></td>
</tr>
<tr>
<td>------------------</td>
<td>---------------</td>
<td></td>
</tr>
<tr>
<td>NSF II-EN: Collaborative research: Enhancing the parasol experimental testbed for sustainable computing 07/01/2017-06/30/2020 PI: Stewart $13,797</td>
<td>TRIPODS: Topology, geometry, and data analysis (TGDA@OSU): Discovering structure, shape, and dynamics in data 10/01/2017-09/30/2020 PI: Dey Co-PIs: Kahle, Kurtek, Memoli, Sivakoff, Yusu Wang $1,500,000</td>
<td></td>
</tr>
<tr>
<td>Huan Sun</td>
<td>Wei Xu</td>
<td></td>
</tr>
<tr>
<td>ARO Advancing human and machine question answering via human-machine collaboration 09/25/2017-01/24/2019 PI: Sun $498,526</td>
<td>Leidos (Army subaward) Modeling the spread of information through social and knowledge graphs 09/29/2017-05/31/2019 PI: Ritter Co-PI: Xu $600,000</td>
<td></td>
</tr>
<tr>
<td>Research Institute at Nationwide Children’s (PCORI subaward) Prime: Patient-Centered Outcomes Research Institute 03/01/2018-02/28/2021 PI: Sun $483,000</td>
<td>NSF CRII: III: Learning a timely semantic resource from social media data 06/01/2018-05/31/2020 PI: Xu $175,000</td>
<td></td>
</tr>
<tr>
<td>DeLiang Wang</td>
<td>Xiaodong Zhang</td>
<td></td>
</tr>
<tr>
<td>NIH Speech segregation to improve intelligibility of reverberant-noisy speech 01/08/2018-12/31/2022 PI: Leon Wang $1,502,811</td>
<td>NSF Travel support for the 37th IEEE international conference on distributed computing systems (ICDCS 17) 06/01/2017-05/31/2018 PI: Zhang $10,000</td>
<td></td>
</tr>
<tr>
<td>Yang Wang</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NSF SHF: EAGER: HI-HDFS - Holistic I/O optimizations for the Hadoop distributed filesystem 09/01/2017-08/31/2018 PI: Blanas Co-PI: Parthasarathy, Yang Wang $150,000</td>
<td>Huawei High-performance database system over GPU devices and fast RDMA networks technology research collaboration project 06/30/2017-06/27/2018 PI: Zhang $360,000</td>
<td></td>
</tr>
</tbody>
</table>
NSF
III: Small: Enabling the best utilization of GPUs for in-memory data management systems
09/01/2017- 08/31/2020
PI: Zhang
$500,000

Yinqian Zhang
NSF
CAREER: Taming the side-channel hazards in the shielded execution paradigm
04/01/2018- 03/31/2023
PI: Y. Zhang
$500,000

NSF
CSR: Small: Self-monitoring virtual machines for performance guarantees in public clouds
10/01/2017- 09/30/2020
PI: Y. Zhang
$500,000
GUEST SPEAKERS AND DISTINGUISHED GUEST LECTURERS

Peter Bartlett    Simons Institute for Theory of Computing at the University of California at Berkley
Distinguished Guest Speaker - Representation, optimization and generalization in deep learning

Mark Bun
Princeton University
Finding Structure in the Landscape of Differential Privacy

Wei-Lun (Harry) Chao
University of Southern California
Transfer learning towards intelligent systems in the wild

Ken Clarkson
IBM Research Almaden
Low-rank PSD Approximation in Input-Sparsity Time

Gautam Dasarathy
Postdoctoral Fellow, Rice University
Closing the Loop on Learning and Acquisition: An Interactive Approach

Pawel Dlotko
Swansea University
Applied and computational topology – from theory through algorithms to solutions of real problems

Dr. Ahmed Elmagarmid
Executive Director of Qatar Computing Research Institute
Distinguished Guest Speaker - Challenges for US Higher Education and Opportunities Emanating from Computing and Data Sciences

Harvey Friedman
The Ohio State University
Distinguished Guest Speaker - This Foundationalist Looks at P = NP

Vijay Gadepally
MIT Lincoln Laboratory at CSAIL
Data Management Tools to Enable Complex Applications

Pooya Hatami
University of Texas at Austin
Pseudorandomness and Structure in Computer Science

Dr. D. Richard Hipp
Independent Software Developer
Distinguished Guest Speaker - SQLite: The World’s Most Widely Used Database Engine

Daniel Hsu
Columbia University
Linear Regression without Correspondence

Oliver Kennedy
University of Buffalo
Reliably Managing Unreliable Data

Hongfu Liu
Northeastern University
Consensus Clustering and its Applications

Rosasco Lorenzo
University of Genova and Visiting Professor at MIT
(Un)conventional regularization for efficient large scale machine learning

Wagner Meira Jr.
Universidade Federal de Minas Gerais, Brazil
Characterizing, mining, and learning from social sensors
Dr. C. Mohan  IBM Researcher
Distinguished Guest Speaker - *New Era in Distributed Computing with Blockchains and Databases*

Junier Oliva  Carnegie Mellon University
*Scalable Learning over Distributions*

Ioannis Panageas  MIT postdoctoral Fellow
*Optimization and Multiplicative Weights Update Algorithm under the Lens of Dynamical Systems*

Georgios Portokalidis  Stevens Institute

Qing Qu  Columbia University
*Nonconvex Recovery of Low-Complexity Models*

Karthik Ramasamy  Co-Founder of Streamlio
*Next Generation Real Time Architectures*

Daniel Reichman  Weizmann Institute
*From algorithms and uncertainty to multitasking and beyond*

Brian Sadler  IEEE Signal Processing Society Distinguished Lecturer for 2017-2018
*Deep Learning: A Signal Processing Perspective*

Dr. Greg Shannon  CERT Division at Carnegie Mellon University’s Software Engineering Institute
*Efficient Cybersecurity*

Thomas Steinke  IBM Almaden Research Center, San Jose, California
*Protecting Privacy and Guaranteeing Generalization with Algorithmic Stability*

Yu Su  University of California, Santa Barbara
*Bridging the Gap between Human and Data with AI*

Lyle Ungar  University of Pennsylvania
Distinguished Guest Speaker - *Measuring Psychological Traits using Social Media*

Colin Ware  Center for Coastal and Ocean Mapping at the University of New Hampshire
*Visual Queries, Visual Thinking and Data Visualization*
The Graduate Program

With the economy in recovery and a job market demanding high-level computer skills, the Department of Computer Science and Engineering continues to grow even more. The 2016-2017 academic brought new records for the number of students enrolled and number of students taught. In particular, the Graduate Program saw new ten year heights in the records in enrollment, the number of students supported and number of Masters graduated, a return to the numbers seen prior to 2002.
PhD Degrees Granted

Dr. Wenlei Bao  
Software Developer Engineer, Microsoft, WA  
Shijiazhuang, China  
Bachelor’s., M.S., Harbin Institute of Technology; M.S., The Ohio State University  
Compiler Techniques for Transformation Verification, Energy Efficiency and Cache Modeling

Dr. Aniket Chakrabarti  
Applied Scientist, Microsoft, WA  
Kolkata, India  
B. Engr., Jadavpur University; M.S., The Ohio State University  
Scaling Analytics via Approximate and Distributed Computing

Dr. Adam Champion  
Sr. Lecturer, The Ohio State University  
Columbus, OH  
B.S.Cptr.Sci.Eng., M.S., The Ohio State University  
Unobtrusive, Pervasive, and Cost-Effective Communications with Mobile Devices

Dr. Soumya Dutta  
Post Doc, Los Alamos National Lab, NM  
Kolkata, India  
Bachelor’s, Maulana Abul Kalam Azad University of Technology; M.S., The Ohio State University  
In Situ Summarization and Visual Exploration of Large-scale Simulation Data Sets

Dr. Justin Eldridge  
Post Doc, The Ohio State University  
Columbus, OH  
B.S., M.S. The Ohio State University  
Clustering Consistently

Dr. Xiaonan Ji  
Post Doc, Washington University School of Medicine  
Xinzhou, China  
B.S., Beihang University; M.S., The Ohio State University  
An Integrated Framework of Text and Visual Analytics to Facilitate Information Retrieval towards Biomedical Literature

Dr. Lilong Jiang  
Software Engineer, Twitter, San Francisco, CA  
Columbus, OH  
B.S., Bachelor’s, Northeastern University; M.S., The Ohio State University  
Interactive Data Exploration using Gestures

Dr. Swaroop Ravindra Joshi  
Sr. Lecturer, The Ohio State University  
Columbus, OH  
B. Engr., National Institutes of Technology, India; M.Tech., Indian Institute of Technology, Bombay; M.S., The Ohio State University  
CONSIDER: A Novel, Online Approach to Conflict-Driven Collaborative-Learning

Dr. Niranjan Kamat  
Amazon Web Services  
Mumbai, India  
B.S., National Institutes of Technology, India; M.S., State University of New York; M.S., The Ohio State University  
Sampling-based Techniques for Interactive Exploration of Large Datasets
Dr. Jaimie Kelley  
Assistant Professor, Dennison University, Granville, OH
Dr. Christopher Stewart  
Westerville, OH
B.S., Heidelberg University; M.S., The Ohio State University
*Resource Allocation using Adaptive Characterization of Online, Data-Intensive Workloads*

Dr. Joo-kyung Kim  
Applied Scientist, Amazon, Seattle, WA
Dr. Eric Fosler-Lussier  
Columbus, OH
B.S., Sogang University; M.S., Seoul National University
*Linguistic Knowledge Transfer for Enriching Vector Representations*

Dr. Mingzhe Li  
Research Scientist, Facebook, Menlo Park, CA
Dr. D.K. Panda  
Columbus, OH
Bachelor’s Henan University of Economics & Law; M.S., San Jose State University
*Designing High-Performance Remote Memory Access for MPI and PGAS Models with Modern Networking Technologies on Heterogeneous Clusters*

Dr. Jiongqian Liang  
Software Engineer, Google, Mt. View, CA
Dr. Srinivasan Parthasarathy  
Columbus, OH
B.Engr., Beiing University; M.S., The Ohio State University
*Human-in-the-loop Machine Learning: Algorithms and Applications*

Dr. Kayhan Moharreri  
Post Doc, The Ohio State University
Dr. Gagan Agrawal  
Columbus, OH
Bachelor’s, Shahid Behesti University; M.S., The Ohio State University
*Augmenting Collective Expert Networks to Improve Service Level Compliance*

Dr. Rajaditya Mukherjee  
Cruise Automation
Dr. Huamin Wang  
Kolkata, Inda
Bachelor’s, Jhadavpur University; M.S., The Ohio State University
*Accelerating Data-driven Simulations for Deformable Bodies and Fluids*

Dr. Do young Park  
Assistant Professor, State University of New York at Old Westbury, NY
Dr. Raghu Machiraju  
Pucheon, Korea
B.S., B.Engr., Hongik University; M.S., Yonsei University; M. Divinity, Methodist Theological Seminary; M.S., Univeristy of Florida; Master’s, Emroy University
*Robust Detection, Visualization, Recognition, and Analysis of Cytoskeletal Structures in Fibrillar Scaffolds from 3-Dimensional Confocal Images*

Dr. Prashant Rawat  
Navi Mumbai, India
B.Engr. University of Mumbai; Master’s, Indian Insitute of Technology Bombay

Dr. Alfred Rossi  
Post Doc, The Ohio State University
Dr. Tamal Dey  
Hilliard, OH
B.S., M.S., The Ohio State University
*Temporal Clustering of Finite Metric Spaces and Spectral k-Clustering*
Dr. Anirban Roychowdhury  
Research Scientist, Facebook, Seattle, WA  
Dr. Srinivasan Parthasarathy  
Kolkata, India  
Bachelor’s, Jadavpur University; M.S. The Ohio State University  
*Robust and Scalable Algorithms for Bayesian Nonparametric Machine Learning*  

Dr. Dayu Shi  
Software Engineer, Google, Mt. View, CA  
Dr. Tamal Dey, Dr. Yusu Wang  
Shenyang, China  
Bachelor’s, M.S., Northeastern University; M.S. The Ohio State University  
*Computing Topological Features for Data Analysis*  

Dr. Ankita Sikdar  
Autonomous Driving Algorithm Enigeer, Delphi, Troy, MI  
Dr. Dong Xuan  
Kolkata, India  
Bachelor’s, Maulana Abul Kalam Azad Univeristy of Technology  
*Depth based Sensor Fusion in Object Detection and Tracking*  

Dr. Suyi Wang  
Research Programmer, University of Southern California, Los Angeles, CA  
Dr. Yusu Wang  
Tangshan, China  
Bachelor’s, Beijing Normal University; M.S., The Ohio State University  
*Analyzing data with 1D non-linear shapes using topological methods*  

Dr. Tzu-hsuan Wei  
Dr. Han-Wei Shen  
Columbus, OH  
B.S., M.S., National Central university; M.S., The Ohio State University  
*Query-Driven Analysis and Visualization for Large-Scale Scientific Dataset using Geometry Summarization and Bitmap Indexing*  

Dr. Miaojun Yao  
Research Scientist, Facebook, Menlo Park, CA  
Dr. Huamin Wang  
Columbus, OH  
Bachelor’s, Zhejiang University; M.S., The Ohio State University  
*3D Printable Designs of Rigid and Deformable Models*  

Dr. Qiang Zhai  
Engineer, Shanghai DeepCode LLC, China  
Dr. Dong Xuan  
Madison, WI  
B.S., Shanghai Jiao Tong University  
*Human and Mobile Robot Tracking in Environments with Different Scales*
<table>
<thead>
<tr>
<th>Name</th>
<th>Advisor</th>
<th>Home</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pragya Arora</td>
<td>Dr. Anish Arora</td>
<td>Gwalior, India</td>
<td>B.Tech., Vellore Institute of Technology</td>
</tr>
<tr>
<td>Saad Asim</td>
<td>Dr. Paul Sivilotti</td>
<td>Galloway, Ohio</td>
<td>B.S.Cptr.Sci.Eng, The Ohio State University</td>
</tr>
<tr>
<td>Dhanvi Athmakuri</td>
<td>Dr. Misha Belkin</td>
<td>Hyderabad, India</td>
<td>B.Engr., Birla Institute of Technology and Science</td>
</tr>
<tr>
<td>Yiran Cao</td>
<td>Dr. Eric Fosler-Lussier</td>
<td>Dezhou, China</td>
<td>B.Engr., Renmin Univiersity of China</td>
</tr>
<tr>
<td>Srividhya Chandrasekharan</td>
<td>Dr. Chris Stewart</td>
<td>Chennai, India</td>
<td>B.Engr., Anna University</td>
</tr>
<tr>
<td>Jorge Chang Cheng</td>
<td>Dr. Deliang Wang</td>
<td>Columbus, Ohio</td>
<td>B.S., Morehead State University</td>
</tr>
<tr>
<td>Aaditya Chauhan</td>
<td>Dr. P. Sadayappan</td>
<td>Ghaziabad, India</td>
<td>B. Engr, University of Delhi</td>
</tr>
<tr>
<td>Anant Chowdhary</td>
<td>Dr. Steve Lai</td>
<td>New Delhi, India</td>
<td>B.Tech., Delhi Technological University</td>
</tr>
<tr>
<td>Shiuli Das</td>
<td>Dr. Raghu Machiraju</td>
<td>New Delhi, India</td>
<td>B. Engr., Birla Institute of Technology and Science</td>
</tr>
<tr>
<td>Piyali Das</td>
<td>Dr. Raghu Machiraju</td>
<td>Kolkata, India</td>
<td>B. Tech., Maulana Abul Kalam Azad Univeristy of Technology; M.S., Univeristy of Cincinnati</td>
</tr>
<tr>
<td>Frederick Deiderich III</td>
<td>Dr. Rajiv Ramnath</td>
<td>Hilliard, Ohio</td>
<td>B.S.Cptr.Sci.Eng, The Ohio State University</td>
</tr>
<tr>
<td>Dushyanta Dhyani</td>
<td>Dr. Huan Sun</td>
<td>Dehradun, India</td>
<td>B.Tech., Natioanl Institutes of Technology India</td>
</tr>
<tr>
<td>Ross Donatelli</td>
<td>Dr. Raghu Machiraju</td>
<td>Satellite Beach, FL</td>
<td>B.S., Florida Institute of Technology</td>
</tr>
<tr>
<td>Huimin Du</td>
<td>Dr. Han-Wei Shen</td>
<td>Chengdu, China</td>
<td>B. Engr., Southeast University</td>
</tr>
<tr>
<td>Soumyashree Gad</td>
<td>Dr. Srinivasan Parthasarathy</td>
<td>Dharwad, India</td>
<td>B. Engr., Visvesvaraya Technological University</td>
</tr>
<tr>
<td>Sayam Ganguly</td>
<td>Dr. Arnab Nandi</td>
<td>Kolkata, India</td>
<td>B.Tech., Maulana Abul Kalam Azad Univeristy of Technology</td>
</tr>
<tr>
<td>Aaditya Gavandalkar</td>
<td>Dr. Michael Bond</td>
<td>Pune, India</td>
<td>B. Engr., University of Pune</td>
</tr>
<tr>
<td>Piyush Ghai</td>
<td>Dr. Wei Xu</td>
<td>New Delhi, India</td>
<td>B.Engr., Univeristy of Delhi</td>
</tr>
<tr>
<td>Austin Gilliam</td>
<td>Dr. Dong Xuan</td>
<td>Columbus, Ohio</td>
<td>B.S.Cptr.Sci.Eng., The Ohio State University</td>
</tr>
</tbody>
</table>
Karan Grover  
Dr. Alan Ritter  
Gurgaon, India  
B.Engr., Univeristy of Delhi

Frederick Gu  
Dr. Han-Wei Shen  
Gahanna, Ohio  
B.S.Cptr.Sci.Eng., The Ohio State University

Harsh Gupta  
Dr. Misha Belkin  
Howrah, India  
B.Tech., Maulana Abul Kalam Azad Univeristy of Technology

Zijian Hu  
Dr. Yang Wang  
B. Engr., Central South University; M.S., Carnegie Mellon University

Anirudh Jonnadulka  
Dr. DK Panda  
Hyderabad, India  
B.Tech., Indian Institute of Technology Bombay

Niranjan Kamat  
Dr. Arnab Nandi  
Mumbai, India  
B.S., National Institute of Technology; M.S., State Univeristy of New York

Ananth Viswa Sai Kalyan Khandrika  
Dr. Spyros Blanas  
Guntur, India  
B.Tech., Indian Institute of Technology Bombay

Eric Lewantowicz  
Dr. Xiaodong Zhang  
Columbus, Ohio  
B.S.Elec.Eng., United State Air Force Academy

Yuzhou Liu  
Dr. Deliang Wang  
Xi’an, China  
B. Engr., Xi’an Jiaotong University

Dingying Lu  
Dr. Yinqian Zhang  
Guangzhou, China  
B.Engr., South China University of Technology

Shijie Ma  
Dr. Gagan Agarwal  
Zhengzhou, China  
B.Engr., Nanjing Univeristy of Posts and Telecommunications

Siyuan Ma  
Dr. Misha Belkin  
Columbus, Ohio  
Master’s, Xi’an Jiaotong University

Pravar Mahajan  
Dr. Wei Xu  
Bhilai, India  
B.Tech., National Institute of Technology Bombay

Abhinav Mahalingam  
Dr. Srinivasan Parthasarathy  
Madurai, India  
B.Tech., National Institute of Technology Tiruchi-rappalli

Venkata Mandadapu  
Dr. Chris Stewart  
Visakhapatnam, India  
B.Engr., M.S., Birla Institute of Technology and Science

Christopher Menart  
Dr. Jim Davis  
Dayton, Ohio  
B.S.Cptr.Sci.Eng., The Ohio State University

Prithvi Krishna Muntimadugu  
Dr. Srinivasan Parthasarathy  
Madanappale, India  
B.Tech., Vellore Institute of Technology

Denis Newman-Griffis  
Dr. Eric Fosler-Lussier  
Columbus, Ohio  
B.A., Carleton College

Ritika Ojha  
Dr. Misha Belkin  
Bhilai, CT  
B. Tech., National Institutes of Technology
Loushang Pan  
Dr. Feng Qin  
Jiande, China  
Bachelor’s, Zhejiang University

Chandrasekar Swaminathan  
Dr. Nasko Rountev  
Chennai, India  
B.Engr., Anna University

Derek Plautz  
Dr. Alan Ritter  
Cranberry Township, PA  
B.S.Cptr.Sci.Eng., The Ohio State University

Vineeth Reddy Thumma  
Dr. P. Sadayappan  
Hyderabad, India  
B.Engr., M.S., Birla Institute of Technology and Science

Deepankar Purniya  
Dr. James Davis  
Haldwani, India  
B. Tech., National Institutes of Technology

Benjamin Trevor  
Dr. Ken Supowit  
Columbus, Ohio  
B.A., Washington University; M.S., The Ohio State University

Samuel Roth  
Dr. Yinqian Zhang  
Piqua, Ohio  
B.S., Ohio Northern University

Sankeerth Vyapamakula Sreeramachandra  
Dr. P. Sadayappan  
Bangalore, India  
B.Engr., Vivesvaraya Technological University

Ajit Kumar Sahoo  
Dr. DK Panda  
Jaipur, India  
B.Tech., National Institutes of Technology

Yan Wang  
Dr. Nasko Rountev  
Columbus, Ohio  
B.Engr., Tongji University

Joseph Shaffer  
Dr. Tamal Dey  
Columbus, Ohio  
B.S., University of Washington

Zhongqiu Wang  
Dr. Deliang Wang  
Columbus, Ohio  
B. Engr., Harbin Institute of Technology

Kunal Singh  
Dr. P. Sadayappan  
Ranchi, India  
B.Engr., Vivesvaraya Technological University

Haowei Wu  
Dr. Nasko Rountev  
Wuhan, China  
B. Engr., Huazong University of Science and Technology

Vijay Siridhar  
Dr. Anastasios Sidiropoulos  
Chennai, India  
B. Engr., Birla Institute of Technology and Science

Chenyang Xu  
Dr. Yang Wang  
Hefei City, China  
B.Engr., Xi’an Jiaotong University

Rohit Kumar Srivastava  
Dr. Rajiv Ramnath  
New Delhi, India  
B.Engr., University of Delhi

Anu Yadav  
Dr. Srinivasan Parthasarathy  
Rewari, India  
B.Tech., Indian Insitute of Technology Bombay

Chuan Wei Sun  
Dr. Huamin Wang  
Taipei, Taiwan  
B.S., National Tsing Hua University; M.S., National Taiwan University

Lingyan Yin  
Dr. Spyros Blanas  
Tianjin, China  
B.Engr., Master’s, Tianjin University
Xianxing Zhang  
Dr. Gagan Agarwal  
China  
Bachelor’s, Xi’an Jiatong University

Jiaqi Zhang  
Dr. Han-Wei Shen  
Nantong, China  
B.S., Wuhan University; M.S., The Ohio State University

Xiaohu Zhao  
Dr. Xiaodong Zhang  
Tianjin, China  
B.Engr., Zheijang University
Undergraduate Program

The Undergraduate Programs in both CSE and CIS continue to grow even with enrollment management in place. Internship and employment opportunities abound, with recruitment from all areas increasing along with our student population.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergrad Students Enrolled</td>
<td>817</td>
<td>877</td>
<td>871</td>
<td>971</td>
<td>1,102</td>
<td>1,287</td>
<td>1,413</td>
<td>1,498</td>
<td>1,617</td>
<td>1,764</td>
<td>2,072</td>
</tr>
<tr>
<td>B.A., B.S. Degrees Awarded</td>
<td>07-08</td>
<td>08-09</td>
<td>09-10</td>
<td>10-11</td>
<td>11-12</td>
<td>12-13*</td>
<td>13-14</td>
<td>14-15</td>
<td>15-16</td>
<td>16-17</td>
<td>17-18</td>
</tr>
<tr>
<td>142</td>
<td>138</td>
<td>127</td>
<td>152</td>
<td>213</td>
<td>229</td>
<td>204</td>
<td>244</td>
<td>292</td>
<td>333</td>
<td>337</td>
<td></td>
</tr>
</tbody>
</table>

*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. As advising coordinator, she manages the day-to-day operations of the CSE Undergraduate Advising Office, verifies graduation eligibility for all CSE and CIS majors, is the main point of contact for students interested in the CIS and Computational Science minors, and serves as a resource for the CSE faculty as well as for advisors across the University. 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, with a Ph.D. in Music History from Ohio State.

Leslie Dowler, Academic Advisor and Staff Assistant, joined the CSE Advising team in September 2014 after several years as an advisor at OSU Newark. She earned a Master of Education degree in College Student Personnel from Ohio University in 2006.

CA Wade, Academic Advisor, joined the CSE Advising team in November 2015 after a year as an advisor in the Department of Mathematics at The Ohio State University. He earned a Master of Education in Secondary Education and a Bachelor of Arts in Mathematics from The Ohio State University.

LaNorris Alexander, Academic Advisor, joined the CSE Advising team in March, 2018 after working within OSU’s Office of Diversity and Inclusion as program manager with the Young Scholars Program. He is completing his Master of Education at The Ohio State University in Education: Teaching and Learning in the College of Education and Human Ecology with a focus on Adolescent, Post-Secondary, and Community Literacies. Prior to joining the Buckeyes, he has worked in higher education with keen focus on student learning, exposure and development, as well as, secondary instruction.

Kami Westhoff, Academic Advisor, joined the CSE Advising team in April 2018 after 11 years advising at OSU in the College of Arts and Sciences. She earned her Master of Fine Arts from The Ohio State University in 2006. Her previous advising experience was working with Art, Art Education, Music, Dance and Design. Her strengths as an advisor are in Degree Audit management, major change advising and working with distressed students. Kami was also a lecturer in the Department of Art for several years, is still a practicing glass artist making handblown glass buckeyes and is active in the local arts community.
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Home</th>
<th>Honors Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drake Addis</td>
<td>BACIS</td>
<td>Pataskala, OH</td>
<td></td>
</tr>
<tr>
<td>Cole Albers</td>
<td>BSCIS</td>
<td>Versailles, OH</td>
<td>Magna Cum Laude</td>
</tr>
<tr>
<td>Osman Ali</td>
<td>BACIS</td>
<td>Hilliard, OH</td>
<td></td>
</tr>
<tr>
<td>Daniel Bodner</td>
<td>BACIS</td>
<td>Moreland Hills, OH</td>
<td></td>
</tr>
<tr>
<td>Joseph Burkhart</td>
<td>BSCIS</td>
<td>Pickerington, OH</td>
<td></td>
</tr>
<tr>
<td>Yemin Chen</td>
<td>BSCIS</td>
<td>Jinhua, China</td>
<td>Cum Laude</td>
</tr>
<tr>
<td>Wing Chung Chow</td>
<td>BSCIS</td>
<td>Middletown, OH</td>
<td>Cum Laude</td>
</tr>
<tr>
<td>Shicheng Chu</td>
<td>BSCIS</td>
<td>Beijing, China</td>
<td>Cum Laude</td>
</tr>
<tr>
<td>Jeremy Clark</td>
<td>BSCIS</td>
<td>Whitehall, OH</td>
<td>Magna Cum Laude</td>
</tr>
<tr>
<td>Eric Cornelius</td>
<td>BSCIS</td>
<td>Cincinnati, OH</td>
<td></td>
</tr>
<tr>
<td>Paul Costinescu</td>
<td>BSCIS</td>
<td>Columbus, OH</td>
<td>Magna Cum Laude</td>
</tr>
<tr>
<td>Cole Coulter</td>
<td>BACIS</td>
<td>New Concord, OH</td>
<td></td>
</tr>
<tr>
<td>Riley Coulter</td>
<td>BACIS</td>
<td>Columbus, OH</td>
<td></td>
</tr>
<tr>
<td>Frank Dattalo</td>
<td>BSCIS</td>
<td>Lindenhurst, NY</td>
<td>Magna Cum Laude</td>
</tr>
<tr>
<td>Robert Ebright</td>
<td>BACIS</td>
<td>Columbus, OH</td>
<td></td>
</tr>
<tr>
<td>Frank Evers</td>
<td>BACIS</td>
<td>Burton, OH</td>
<td></td>
</tr>
<tr>
<td>Richard Feldtz</td>
<td>BSCIS</td>
<td>Cleveland, OH</td>
<td>Cum Laude</td>
</tr>
<tr>
<td>Connor Hall</td>
<td>BACIS</td>
<td>Columbus, OH</td>
<td></td>
</tr>
<tr>
<td>Ian Hardgrove</td>
<td>BSCIS</td>
<td>Lisbon, OH</td>
<td></td>
</tr>
<tr>
<td>Evan Harrell</td>
<td>BACIS</td>
<td>Hilliard, OH</td>
<td></td>
</tr>
<tr>
<td>Stephanie Hayden</td>
<td>BACIS</td>
<td>Columbus, OH</td>
<td>Magna Cum Laude</td>
</tr>
<tr>
<td>Matthias Heinz</td>
<td>BSCIS</td>
<td>Hilliard, OH</td>
<td>Magna Cum Laude, with Honors Research Dist in Physics, with Honors in Arts &amp; Sciences</td>
</tr>
<tr>
<td>Jonathan Hickman</td>
<td>BSCIS</td>
<td>New York, NY</td>
<td>Magna Cum Laude, with Honors in Arts &amp; Sciences</td>
</tr>
<tr>
<td>Jake Hill</td>
<td>BSCIS</td>
<td>Galloway, OH</td>
<td></td>
</tr>
<tr>
<td>Claudia Hinkle</td>
<td>BSCIS</td>
<td>Hudson, OH</td>
<td>Cum Laude</td>
</tr>
<tr>
<td>Ryan Ho</td>
<td>BSCIS</td>
<td>Columbus, OH</td>
<td></td>
</tr>
<tr>
<td>Wei Huang</td>
<td>BSCIS</td>
<td>Wuhan, China</td>
<td></td>
</tr>
<tr>
<td>Weicheng Huang</td>
<td>BSCIS</td>
<td>Dongguan, China</td>
<td></td>
</tr>
<tr>
<td>Sami Ibrahim</td>
<td>BSCIS</td>
<td>Reynoldsburg, OH</td>
<td>Cum Laude</td>
</tr>
<tr>
<td>Alexander Kaps</td>
<td>BSCIS</td>
<td>Columbus, OH</td>
<td></td>
</tr>
<tr>
<td>Haden Kersting</td>
<td>BSCIS</td>
<td>Bridgeport, WV</td>
<td>Cum Laude</td>
</tr>
<tr>
<td>Jackson Killian</td>
<td>BSCIS</td>
<td>Sicklerville, NJ</td>
<td>Summa Cum Laude, with Honors Rsrch Dist Comp Info Sys, with Honors in Arts &amp; Sciences</td>
</tr>
</tbody>
</table>
Jason Kline, BSCIS  
Oxford, OH  
Cum Laude, with Honors in Arts & Sciences

Mason Koch, BSCIS  
New Richmond, WI

Jared Kohler, BSCIS  
Mason, OH  
Magna Cum Laude

Daniel Krajnak, BACIS  
Columbus, OH  
Honors in Arts & Sciences

Yuzhao Li, BSCIS  
Luoyang, China

Xiao Liang, BSCIS  
Wuhan, China

Jeffrey Liao, BSCIS  
Upper Arlington, OH

Raymond Liao, BSCIS  
Dublin, OH

Aron Lime, BSCIS  
Columbus, OH

Eric Lin, BSCIS  
Dayton, OH

Ziman Ling, BSCIS  
Changsha, China  
Magna Cum Laude

Paul Linville, BSCIS  
Columbus, OH

Momo Liu, BSCIS  
Manzhouli, China  
Cum Laude

Jacob Loeser, BSCIS  
Toledo, OH

Bo Lu, BSCIS  
Beijing City, China  
Magna Cum Laude

Kristen Marsh, BACIS  
Atlanta, GA

Mohamed Mayow, BSCIS  
Hilliard, OH

Kurt Metz, BSCIS  
Maumee, OH

Charles Morris, BSCIS  
Marysville, OH

Kurt Mueller, BSCIS  
Columbus, OH

Luke Neff, BSCIS  
Dublin, OH

Bradley Nelson, BSCIS  
Plymouth, MI

Ncebazikamndali Nyoni, BACIS  
Columbus, OH

Chenhui Pan, BSCIS  
Nanjing, China

Rachel Parker, BSCIS  
South Vienna, OH  
Cum Laude, with Honors in Arts & Sciences

John Phillips, BSCIS  
Columbus, OH

Manasa Punugu, BACIS  
Dublin, OH

Pegah Rashidnia, BACIS  
Westlake, OH

Robert Reilly, BSCIS  
Columbus, OH

Jeffrey Rolland, BSCIS  
Valley City, OH  
Cum Laude

Cole Shroyer, BSCIS  
Marysville, OH

Melinda Studans, BSCIS  
Huron, OH  
Magna Cum Laude, with Honors in Arts & Sciences

Hanzhi Su, BSCIS  
Columbus, OH

Kulraj Sumra, BSCIS  
Dayton, OH

Joshua Thomas, BSCIS  
Lima, OH  
Summa Cum Laude

William Thornton, BSCIS  
Loveland, OH  
Magna Cum Laude

Yuxuan Wang, BSCIS  
Columbus, OH  
Magna Cum Laude
Anthony Weston, BSCIS  
Ohio  
Magna Cum Laude

Paul Williams, BSCIS  
Columbus, OH  
Cum Laude

Haozheng Wu, BSCIS  
Hangzhou, China  
Cum Laude

Songnan Wu, BSCIS  
Wujiang, China  
Magna Cum Laude

Dikai Xiong, BSCIS  
Beijing, China

Yao Xu, BSCIS  
Columbus, OH

Jia Yang, BSCIS  
Nantong, China  
Magna Cum Laude

Zhenyang Yu, BSCIS  
Hangzhou, China  
Cum Laude

Chenchuan Zhang, BSCIS  
Shanghai, China  
Summa Cum Laude

Jiachen Zhang, BSCIS  
Dalian, China

Zicong Zhang, BSCIS  
Beijing City, China

College of Engineering

Name, (All degrees are Bachelors of Science in Computer Science and Engineering)

Rafah Asadi  
Columbus, OH

Justin Adams  
Reedsville, PA  
Cum Laude, with Honors in Engineering

Kathryn Adamsky  
Dublin, OH  
Magna Cum Laude

Jennifer Alarcon  
Westerville, OH  
Magna Cum Laude

Eid Al-rabadi  
Westerville, OH

Jacob Alvord  
San Diego, CA

Brett Arthur  
Hilliard, OH

Rafah Asadi  
Columbus, OH

Jared Axelrod  
Solon, OH

Brent Baker  
Delaware, OH

Brian Baker  
Avon, OH  
Summa Cum Laude

Alexandra Barnes  
Thornville, OH

Sandeep Battula  
Lewis Center, OH

Michael Bayless  
Athens, OH  
Magna Cum Laude

Eugene Begue  
Tiffin, OH

Mason Bender  
Concord, OH

Bereket Berhane  
Westerville, OH  
Cum Laude

Benjamin Bloom  
Columbus, OH  
Magna Cum Laude, with Honors Integrated Bus & Eng

Brett Boehmer  
Canal Winchester, OH

Daniel Bond  
Bexley, OH  
Magna Cum Laude

Jesse Buckley  
Barnesville, OH

Thomas Burnett  
Magnolia, OH  
Cum Laude
Alexandre Cabello  
*Cincinnati, OH*

Chen Cai  
*Wuhan, China*

Joseph Call  
*Stow, OH*

Runzhou Cao  
*Hangzhou, China*  
*Magna Cum Laude*

Justin Carruthers  
*Browns Summit, NC*

Shuming Chan  
*Columbus, OH*  
*Magna Cum Laude*

Ian Cheatwood  
*Columbus, OH*

Fan Chen  
*Nanjing, China*  
*Cum Laude*

Akash Chopda  
*Nashik, India*  
*Magna Cum Laude*

Benjamin Clarke  
*West Chester, OH*  
*Cum Laude, with Honors in Engineering*

Joshua Clyde  
*Liberty Township, OH*

David Cole  
*Dublin, OH*  
*Cum Laude*

Tyler Collison  
*Lancaster, OH*  
*Summa Cum Laude*

Derek Coventry  
*N. Canton, OH*

Christopher Crain  
*Niles, OH*

Michael Cristina  
*Mandeville, LA*

Daniel da Rosa  
*Merrimack, NH*

Aden Dahir  
*Columbus, OH*

Jin Dai  
*Jinan, China*  
*Summa Cum Laude*

Wesley Darvin  
*Beachwood, OH*  
*Magna Cum Laude, with Honors in Engineering*

Seth Delbridge  
*Floyds Knobs, IN*

Tommy Delgado  
*Grove City, OH*

Sophia DeRosa  
*Cincinnati, OH*

Mohit Deshpande  
*Beavercreek, OH*  
*Magna Cum Laude, with Honors in Dist Comp Sci & Eng*

Joel Diener  
*Columbus, OH*  
*Summa Cum Laude*

Daniel Dillon  
*Solon, OH*

Jianyi Ding  
*Dublin, OH*  
*Cum Laude, with Honors in Engineering*

Zachary Dinsmore  
*Columbus, OH*  
*Magna Cum Laude*

Kayli Doll  
*Chesterland, OH*  
*Cum Laude*

Mitchell Domecq  
*Columbus, OH*  
*Magna Cum Laude*

Yihang Du  
*Columbus, OH*  
*Cum Laude*

Dakota Duncan  
*Seville, OH*  
*Magna Cum Laude*

Peter Edin  
*Columbus, OH*

Si Fang  
*Beijing City, China*  
*Summa Cum Laude*
★ Jeff Feldmann  
Worthington, OH

★ Shana Fishbein  
Dayton, OH

★ Daniel Flax  
North Potomac, MD  
*Summa Cum Laude, with Honors in Engineering*

★ Rory Flukes  
Weymouth, MA  
*Summa Cum Laude*

★ Nicholas Forquer  
Westerville, OH

★ Andrew Fox  
Wellington, OH, OH  
*Magna Cum Laude*

★ Stefan Fraga  
Wooster, OH

★ Gary Fridenmaker  
Centerville, OH

★ Alfonso Frioni  
Pittsburgh, PA

★ Drew Gallagher  
Kent, OH

★ Allison Galuska  
North Royalton, OH

★ Krishna Ganesan  
Glenmoore, PA

★ Erin George  
Mason, OH  
*Cum Laude*

★ Morgan Gongwer  
Mansfield, OH

★ Jason Gorringe  
Columbus, OH

★ Tennison Gray  
Columbus, OH  
*Magna Cum Laude*

★ Matias Grioni  
Twinsburg, OH  
Summa Cum Laude

★ Brian Groenke  
Cincinnati, OH  
*Cum Laude*

★ Chuanjing Guo  
Fuzhou, China

★ Niharika Gupta  
Mumbai, India

★ Remington Hackbarth  
Coldspring, KY

★ Thomas Haight  
Mentor, OH

★ Sabrina Halkiu  
Cincinnati, OH

★ Nicholas Hallisy  
Cleveland Heights, OH

★ Michael Hamill  
Columbus, OH

★ Nathan Hammonds  
Gahanna, OH

★ Evan Hanawalt  
Findlay, OH

★ Shuming He  
Beijing, China

★ Eric Hemphill  
Akron, OH

★ Lamarr Henry  
Dayton, OH  
*Cum Laude*

★ Kevin Hernandez  
North Canton, OH  
*Summa Cum Laude, with Honors in Engineering*

★ Jonathan Herrera  
Miami, FL

★ Donald Herwig  
Grafton, OH

★ Elizabeth Heym  
Columbus, OH  
*Summa Cum Laude, with Honors in Engineering*

★ Blake Howard  
Cincinnati, OH

★ Haoqi Hu  
Chengdu, China  
*Magna Cum Laude*

★ Syed-Amad Hussain  
Columbus, OH  
*with Honors Rsch Dist in Linguistics*
* Kyle Hutchinson  
  Twinsburg, OH  
* Christopher Hutchinson  
  Columbus, OH  
* Nathan Iarve  
  Colleyville, TX  
* Omar Ibrahim  
  Dracut, MA  
  *Cum Laude*  
* Jeffrey Jarry  
  Powell, OH  
* Jordan Johnson  
  Parkville, MD  
* Joshua Kahn  
  Mukilteo, WA  
  *Magna Cum Laude*  
* Xiong Ke  
  Wuhan, China  
* Vyyom Kelkar  
  Lewis Center, OH  
  *Cum Laude, with Honors in Engineering*  
* Daniel Kennon  
  Saint Clairsville, OH  
* Jihyung Kil  
  Ulsan City, Korea  
* Jae Dong Kim  
  Mason, OH  
* Dylan Knaplund  
  Tiffin, OH  
  *Summa Cum Laude, with Honors in Engineering*  
* Mark Koozer  
  Westerville, OH  
* Lane Kubicki  
  Medina, OH  
* Kurtis Kuszmaul  
  Columbus, OH  
* Ben Lall  
  Dublin, OH  
* Daniel Lambert  
  Westerville, OH  
* Joshua Lan  
  Beavercreek, OH  
* Son Le  
  Lone Tree, CO  
* Jeremy LeDonne  
  Columbus, OH  
  *Summa Cum Laude*  
* Yuping Liang  
  Changsha, China  
* Sean Lima  
  Columbus, OH  
* Charlette Lin  
  Columbus, OH  
  *Summa Cum Laude*  
* Adrien Lindner  
  Shalimar, FL  
  *Magna Cum Laude*  
* Hairuo Liu  
  Beijing, China  
* Ryan Liu  
  Fremont, CA  
* Phillip Loveland  
  Ottawa, OH  
* Zachary Lucas  
  Woodville, OH  
  *Cum Laude*  
* Nicholas Luckenbach  
  Columbus, OH  
* Brian Lutz  
  Chagrin Falls, OH  
* Chance Lytle  
  Belpre, OH  
  *Cum Laude, with Honors in Engineering*  
* Owen Maher  
  Galena, OH  
* Gabriella Marinescu  
  Berlin Center, OH  
* Michael Mascolino  
  Columbus, OH  
* Clayton Mason  
  Lowell, OH  
  *Magna Cum Laude, with Honors in Engineering*  
* Howell McCullough  
  Bexley, OH
★ Maxwell McDavid  
Canal Winchester, OH
★ Johan McGwire  
Columbus, OH
★ Quinn McHugh  
Columbus, OH  
*Magna Cum Laude*
★ Emily McIntyre  
Gahanna, OH
★ Dillon Merritt  
Mentor, OH
★ Nicholas Meyer  
Lewis Center, OH  
*Magna Cum Laude*
★ Amy Miao  
Columbus, OH  
*Cum Laude, with Honors in Engineering*
★ Gabrielle Miguel  
Kenosha, WI
★ Lauren Miller  
Sunbury, OH  
*Summa Cum Laude, with Honors in Engineering*
★ Casey Miller  
Baltimore, OH
★ Brandon Minner  
Cincinnati, OH
★ Kyle Modlich  
Columbus, OH
★ Trevor Monteforte  
Seven Hills, OH
★ Shawna Moore  
Galloway, OH
★ Patrick Muller  
La Grange, KY
★ Leah Music  
Columbus, OH
★ Negash Negash  
Columbus, OH
★ Sean Nelson  
Coppell, TX
★ Sean Nemann  
Crescent Springs, KY  
*Summa Cum Laude, with Honors in Engineering*
★ Tony Nguyen  
Washington, DC
★ Adam Ovak  
North Canton, OH  
*Summa Cum Laude*
★ Patrick Pastore  
Cleveland, OH  
*Magna Cum Laude, with Honors in Engineering*
★ Shiny Patel  
Columbus, OH  
*Cum Laude*
★ Viral Patel  
Marysville, OH  
*Magna Cum Laude*
★ Sunny Patel  
Northfield, OH  
*Magna Cum Laude*
★ Austin Payne  
Broken Arrow, OK
★ Nicholas Perrin  
Cincinnati, OH
★ Brad Pershon  
Delaware, OH  
*Magna Cum Laude*
★ Steven Pidcock  
Columbus, OH
★ Anthony Pietrantozzi  
Twinsburg, OH
★ Justin Pinsky  
Plainview, NY
★ Andrew Pitrof  
Dayton, OH
★ Tytus Planck  
West Chester, OH
★ Evan Pliska  
Columbus, OH  
*Cum Laude*
★ Brennan Plowman  
Columbus, OH
★ Nicolas Pouliquen  
Newport Coast, CA
★ Maxwell Powell  
Columbus, OH  
*Magna Cum Laude*
Gerard Puhalla
Clinton, OH

Lucas Puskaric
Mokena, IL

Nianyun Qi
Hangzhou, China

Kevin Quach
Reynoldsburg, OH
Magna Cum Laude

Babak Rafian
Gahanna, OH

Trevor Rambacher
Miamisburg, OH

Bobak Rashidnia
Westlake, OH

Andrew Relyea
Chagrin Falls, OH
Magna Cum Laude

Richard Renner
Chagrin Falls, OH
Cum Laude

Siddartha Revur
Hilliard, OH
Cum Laude, with Honors in Engineering

Riley Richards
Worthington, OH
Cum Laude

Lucas Rodriguez
Dublin, OH

Adam Roller
Cincinnati, OH

Kyle Rossman
Jenera, OH

Luke Rouker
Columbus, OH
Magna Cum Laude

Jacob Ruth
Westerville, OH

Akshat Saini
Mumbai, India

Allison Salach
Alto, MI

Joshua Sandvick
North Royalton, OH
Magna Cum Laude, with Honors Integrated Bus & Eng,

Alexander Sarrouh
Strongsville, OH

David Sauder
Wauseon, OH

Alex Schilling
Columbus, OH

Eric Schirtzinger
Worthington, OH

Joshua Schraivogel
Cincinnati, OH

Jonathan Seaman
Ravenna, OH

Mubasil Shamim
Dublin, OH

Daniel Shawlon
Fairlawn, OH
Magna Cum Laude

Alexander Silk
Solon, OH

David Sinchok
Columbus, OH

Melissa Sjostrom
Albuquerque, NM

Nicholas Skiljan
Chagrin Falls, OH
with Honors in Engineering

Benjamin Smith
Columbus, OH

Dylan Smith
Strongsville, OH

Tyler Snyder
Cincinnati, OH

Yuanjia Song
Chengdu, China

Gregory Sop
Columbus, OH

Aishwarya Srivastava
Delhi, India
Magna Cum Laude

Kenton Steiner
Wooster, OH

Jamie Steines
Warren, OH

Adam Sturgeon
Columbus, OH
Zeyang Su  
Dongguan City, China  
*Summa Cum Laude*

Allison Subtelny  
Chicago, IL

Jingyi Sun  
Maineville, OH

Alexander Tanechevski  
New Albany, OH  
*Magna Cum Laude*

Peiyuan Tang  
Beijing, China  
*Summa Cum Laude, with Honors in Engineering*

Alexander Tareshawty  
Canfield, OH  
*Summa Cum Laude*

Kyle Thompson  
Canfield, OH

Ryan Tomlinson  
Portland, OR

Kevin Truong  
Columbus, OH

Randy Tsai  
Highland Heights, OH

Alexander Turner  
North Olmsted, OH  
*Magna Cum Laude*

Rezeki Utomo  
Jakarta, Indonesia  
*Summa Cum Laude*

Cameron Utsman  
Glen Allen, VA

Ross Vasko  
Strongsville, OH  
*Summa Cum Laude, with Honors Rsch Dist Comp Sci & Eng, with Honors in Engineering*

Patrick Veith  
Cincinnati, OH

Nikhil Vinay  
Delaware, OH

Nabil Wadih  
Cincinnati, OH  
*Cum Laude*

Christine Walsh  
Dublin, OH

Zhuoer Wang  
Huangshi, China  
*Cum Laude*

Kevin Wang  
Columbus, OH

Yian Wang  
Beijing, China

Zachary Weatherly  
Sandusky, OH  
*Cum Laude, with Honors in Engineering*

Allen Wenzl  
Avon, OH

Sean Whitehurst  
Kings Mills, OH

Tavish Wille  
Hilliard, OH

Alexander Williams  
Hudson, OH  
*Magna Cum Laude*

Lee Winfield  
Painesville, OH

Connor Winton  
Westerville, OH

Kamari Wright  
Palmetto, GA

Keao Xu  
Harbin, China  
*Cum Laude*

Jingyuan Xu  
Lewis Center, OH  
*Cum Laude*

Michael Yamada  
Columbus, OH

Cheng-Han Yang  
Taipei City, Taiwan

Linxin Yang  
Qingdao, China

Stephen Yau  
Cincinnati, OH

Yuchen Ye  
Columbus, OH

Xuzhou Yin  
Ji’an, China  
*Cum Laude*
★ Samuel Yinger  
Somerset, OH

★ Ki Lam Yip  
Avon, OH  
*Cum Laude*

★ Lucas Yost  
Marysville, OH

★ Vincent Young  
Ridgewood, NJ

★ Cole Zavar  
Plain City, OH

★ William Zhang  
Chappaqua, NY  
*Cum Laude*

★ Lingfeng Zhang  
Kunming, China  
*Cum Laude*

★ Yifei Zhao  
Shenzhen, China  
*Magna Cum Laude*

★ Zheng Zheng  
Wenzhou, China  
*Magna Cum Laude*

★ Mary Zhou  
Powell, OH  
*Cum Laude*

★ Minghao Zhu  
Tianjin, China  
*Magna Cum Laude*

★ Yupeng Zou  
Haining, China
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


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.

RAEF BASSILY
Assistant Professor

B.S. Electrical and Computer Engineering, Cairo University, 2003; M.S. in Engineering Mathematics, Cairo University, 2006; Ph.D. in Electrical and Computer Engineering, University of Maryland, 2012

Department Research Area: MACHINE LEARNING THEORY

Interests: Research focuses on tackling current challenges in data analysis and machine learning especially those of direct impact on society.

MIKHAIL BELKIN
Full 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
Associate 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: Programming Languages; Software Systems; Runtime Systems; Program Analysis; Parallelism; Compilers; Security

Jian Chen
Associate Professor

M.S. Mechanical Engineering, Tianjin University, 1999; M.S. Computer Science, University of Houston, 2002; Ph.D., Computer Science, Virginia Polytechnic Institute and State University, 2016

Department Research Area: GRAPHICS
Interests: interdisciplinary science of visualization and 3D interaction in virtual reality.

Bryan Choi
Assistant Professor


Department Research Area: PRIVACY
Interests: Property, Intellectual Property (Patent, Copyright, Trademark), Internet Law, Privacy, Torts
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: THEORY, GRAPHICS 
Interests: Computational Geometry; Computational Topology; Geometric Modeling; Meshing; Data Analysis

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 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
Full Professor

Department Research Area: ARTIFICIAL INTELLIGENCE 
Interests: Automatic Speech Recognition; Computational Linguistics; Machine Learning.
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; Parallel and Distributed Computing.

ZHIQIANG LIN  
Associate Professor

B.E. in Computer Science, Nanjing University of Posts and Telecommunications, 2002; M.S. in Computer Science, Nanjing University, 2006; Ph.D. in Computer Science, Purdue University, 2011

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING  
Interests: Computer systems security

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  
Associate 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**  
Associate 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: Database Systems; Large-scale Data Analytics; Next-generation User Interfaces; Text Analysis; Interactive Visualization.

**DK PANDA**  
Full Professor


Department Research Area: SYSTEMS

Interests: Parallel Computer Architecture; High Performance Networking; Infiniband; Exascale Computing; Programming Models; GPUs and Accelerators; Big Data; Virtualization; Cloud Computing; High Performance File Systems and Storage.

**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.

**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; Storage Systems
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.

NASKO ROUNTEV
Full Professor

B.S., Computer Science & Engineering, University of 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: Software Engineering; Programming Languages and Compilers; Static and Dynamic Program Analysis; Software for Mobile Devices; Software Understanding and Testing; High-Performance Computing.

P. (SADAY)
SADAYAPPAN
Full Professor


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

Prasun Sinha  
Full Professor

B. Tech., Computer Science and Engineering, Indian Institute of Technology, Delhi, India, 1995; MS, Computer Science, Michigan State University, 1997; Ph.D, 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


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

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**  
Associate 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  

**CHRISTOPHER STEWART**  
Associate 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: Sustainable computing; Internet services; Data-intensive services; Distributed Systems; Performance Modeling.

**HUAN SUN**  
Assistant Professor  

B.S., Electronic Engineering and Information Science, University of Science and Technology of China, 2010; Ph.D., Computer Science, University of California, Santa Barbara, 2015  
Department Research Area: DATA MINING  
Interests: Data Mining and Machine Learning with emphasis on text mining and understanding, network analysis, and human behavior understanding.

**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  
Associate 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; Neurodynamics.

HuaMin Wang  
Associate 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  

Yang Wang  
Assistant Professor

B.E., Computer Science and Technology, Tsinghua University, 2005; M.E., Computer Science and Technology, Tsinghua University, 2008; Ph.D., Computer Science, The University of Texas at Austin, 2014  
Department Research Area: DISTRIBUTED COMPUTING  
Interests: Fault Tolerance; Large-scale Storage System; Correctness and Performance Debugging.
Yusu Wang
Full Professor


Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

Interests: Distributed Computing; Computer Networks; Cyber Space Security.

Rephael Wenger
Associate Professor and Associate Chairperson

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.

Wei Xu
Assistant Professor


Department Research Area: MACHINE LEARNING, NATURAL LANGUAGE PROCESSING, BIG DATA, SOCIAL MEDIA, DATA SCIENCE

Interests:

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; Cyber Space Security.
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

Assistant Professor

Department Research Area: NETWORKING AND DISTRIBUTING COMPUTING
Interests: Computer System Security; Cloud and Mobile Security; Privacy

XIAODONG ZHANG
Chairperson of Computer Science & Engineering
Robert M. Critchfield Professor

YINQIAN ZHANG
Assistant 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; Distributed Systems
2017-2018 Clinical Faculty

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


**Jeremy Morris**  
Assistant Professor of Practice

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.

Research Interests: Artificial Intelligence, particularly as it applies to Automatic Speech Recognition (ASR) and Natural Language Processing (NLP).

**Dave Ogle**  
Associate Professor of Practice

B.S., M.S., Ph.D., Computer Science, The Ohio State University

Research Interests: Distributed systems, networking, and blockchain as it applies to application domains like supply chain.

**Courtsey Appointments**

Michael Knopp, Professor and Vice Chair of Research, Dept. of Radiology

Yoonkyung Lee, Professor, Dept. of Statistics

Xiaorui (Ray) Wang, Associate Professor, Electrical and Computer Engineering

Cathy (Honghui) Xia, Associate Professor, Integrated Systems Engineering

Alper Yilmaz, Associate Professor, Civil Environmental & Geodetic Science
2017-2018 Research Scientists

**Jihun Hamm**
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.

**Xiaoyi Lu**
Research Scientist


Research Interests: Parallel Computing (MPI/PGAS) and Cloud Computing (Big Data, Hadoop Ecosystem).

**Hari Subramoni**
Research Scientist


Research Interests: High performance computer networks, Network based computing, Internet router and switch architectures.

**Hao Wang**
Research Scientist

Ph.D. Computer Science, Institute of Computing Technology, 2008

Post-Doctorate Researchers

Justin Eldridge
Alfred Rossi III
Gang Li
Kayhan Moharreri
Amit Ruhela
Karthik Vadambacheri Manian
Mengbai Xiao

Research Staff

Mark Arnold, Research Specialist
Jeffrey Smith, Research Specialist
Aravind Sukumaran Rajam, Senior Research Associate
Lokanath Burujupalli, Research Assistant 2
Kaitlyn Spehr, Research Assistant 1
## 2017-2018 Lecturers

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
<th>Background</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gojko Babic</strong></td>
<td>Senior Lecturer</td>
<td>B.S., Electric Engineering, University of Sarajevo, 1972; M.S., Computer Science, Florida Institute of Technology, 1975; Ph.D., Computer Science, The Ohio State University, 1978.</td>
</tr>
<tr>
<td><strong>Bettina Bair</strong></td>
<td>Senior Lecturer</td>
<td>B.S., Business Administration, University of Phoenix, 1987; M.B.A., University of Denver, 1992.</td>
</tr>
<tr>
<td><strong>Matthew Boggus</strong></td>
<td>Senior Lecturer</td>
<td>B.A., Computer Science and Mathematics, Hiram College, 2006; Ph.D., Computer Science and Engineering, The Ohio State University, 2012.</td>
</tr>
<tr>
<td><strong>Paolo Bucci</strong></td>
<td>Senior Lecturer</td>
<td>Laurea in Scienze Dell’ Informazione, Universita’ Degli Studi di Milano, Italy, 1986; M.S., Computer &amp; Information Science, The Ohio State University, 1989; Ph.D., Computer &amp; Information Science, The Ohio State University, 1997.</td>
</tr>
<tr>
<td><strong>Adam Champion</strong></td>
<td>Lecturer</td>
<td>B.S., Computer Science and Engineering (with distinction), The Ohio State University, 2007; M.S., Computer Science and Engineering, The Ohio State University, 2012.</td>
</tr>
<tr>
<td><strong>Alan Cline</strong></td>
<td>Senior Lecturer</td>
<td>B.S., Mathematics, The Ohio State University; M.S., Physics, Akron University</td>
</tr>
<tr>
<td><strong>Doreen Close</strong></td>
<td>Senior Lecturer</td>
<td>B.S., Computer and Information Science, The Ohio State University, 1979; M.S., Computer Science and Engineering, The Ohio State University, 1981.</td>
</tr>
<tr>
<td><strong>Michael Fritz</strong></td>
<td>Lecturer</td>
<td>B.S., Psychology, The Ohio State University, 1997; B.S., Mathematics, The Ohio State University, 2005; M.S., Computer Science and Engineering, The Ohio State University, 2013.</td>
</tr>
<tr>
<td><strong>Michael Green</strong></td>
<td>Lecturer</td>
<td>B.A., Linguistics, Ohio State University, 1980; M.A., Linguistics, Ohio State University, 1982; J.D., Ohio State University College of Law, 1993; M.S., Computer Science and Engineering, Ohio State University, 2013.</td>
</tr>
</tbody>
</table>
CINDY GRIMME  
Lecturer
B.S., Civil Engineering, University of Pittsburgh

WAYNE HEYM  
Senior Lecturer
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.

JEFF JONES  
Senior Lecturer
B.S. in Computer Science, Ohio University, 1981; M.S. in Computer and Information Science, The Ohio State University, 1988; Ph.D. in Computer Science, Ohio University, 2015.

JANIS JONES  
Senior Lecturer
B.S. Mathematics, Ohio University, 1979; M.S. Computer Information Science, The Ohio State University, 1985

SWAROOP JOSHI  
Senior Lecturer
B.E. Computer Engineering, National Institute of Technology Karnataka, 2005; M.Tech, Computer Science, Indian Institute of Technology, Bombaby, 2010; M.S. Computer Science, The Ohio State University, 2016; Ph.D., Computer Science, The Ohio State University, 2017

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

NEIL KIRBY  
Senior Lecturer
B.S., Electrical Engineering, The Ohio State University; M.S. The Ohio Stae University

LEON MADRID  
Lecturer
M. Sc. Computer Architecture, The Ohio State University

MICHELLE MALLON  
Lecturer
CATHERINE MCKINLEY
Lecturer
B.S. in CIS, DeVry University, 2002; MBA focus in MIS, Management Information Systems, Franklin University, 2004.

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

NAEEM SHAREEF
Senior Lecturer

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.

DIEGO ZACCAI
Senior Lecturer
B.S., Computer Science and Engineering, The Ohio State University, 2009.

2017-2018 Part-time Lecturers

**Senior Lecturers**
- Kemal Aydin
- Thomas Bihari
- Lin Chiu
- Charles Estill
- Morteza Hashemi
- Khaled Jaber
- Praveen Kumar
- Scott Mills
- Bhuvarahamur Narsimhan
- Andrew Plummer
- Perumal Ramasamy
- Angel Rivera
- Dauntrica Rodgers
- Alfred Rossi III
- Jason Van Hulse

**Part-Time Lecturers**
- Aaron Baxter
- Stephen Boxwell
- Michael Burkhardt
- Moez Chaabouni
- Laurie Crawford
- Jeffrey Eden
- Clair Farris
- Eric Frick
- Charles Giles
- Stephen Gomori
- Adam Grupa
- Shaikh Mohammed Zahid Hossain
- Roman Illin
- Mark Jackson
- Suribabu Jayanti
- Jeremy Johnston
- Robert Joseph
- Diana Kline
- William Martin
- Steven Romig
- Richard Wagner
- Bryan Weaver
- Parker Wiksell
2017-2018 Visiting Scholars

Lusaka Bhattacharya
Jiongyi Chen
Xiang Deng
Vinicius Vitor dos Santos Dias
Liang Geng
Chengxin Guo
Botong Ou
Songquan Shi
Yingxue Sun
Dong Tian
Chendong Wang
Zhendong Wang
Yanfeng Zhang

Staff

Julia Armstrong - Program Director
Kathleen Babusci - Fiscal Officer
Catreana Collins - Human Resources Generalist
Tamera Cramer - Office Associate
Donald Havard - Fiscal Officer
Lynn Lyons - Office Admin Assoicate
Tiffany McGough - Public Relations Coordinator
Wendy Michel - Fiscal Associate
Kitty Reeves - Instructional Development Specialist
Christa Yandrich - Grant Funds Coordinator
At the Ohio Union during the Buckeython, Brutus Buckeye is always ready for a chat.
~ photo by Elliot Gilfix, Engineering

Dreese Labs

Dreese’s Garden of Constants

All photos on this page courtesy of the OSU “Image of the Day” webpage.