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## FACULTY, SCIENTISTS & STAFF

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Our Mission

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

The Rock Stars of HPC series is about the men and women who are changing the way the HPC community develops, deploys and operates the supercomputers and social and economic impact of their discoveries.

Over the past seven years insideHPC, has spent a lot of time on the road at high performance computing events. In that time, perhaps no other speaker has been more prolific than DK Panda from Ohio State University. As the newest Rock Star of HPC, DK sat down with insideHPC to discuss his passion for teaching High Performance Computing.

HANS MEUER OUTSTANDING RESEARCH PAPER AWARD AT ISC ‘17

The award winning paper from DK Panda’s group, Designing Dynamic and Adaptive MPI Point-to-point Communication Protocols for Efficient Overlap of Computation and Communication, had the lead author of Dr. Hari Subramoni, a research scientist in the group and co-author Sourav Chakraborty, a Ph.D. student.

The Hans Meuer Award honors the most outstanding research paper submitted to the conference’s Research Papers Committee. This award has been introduced in the memory of the late Dr. Hans Meuer, general chair of the ISC conference from 1986 through 2014, and co-founder of the TOP500 project.

The paper was one of two finalists and the team presented their work in the Research Paper Session at the ISC ’17 conference in Frankfurt, Germany on Monday June 19th. The winning paper received a cash prize of 5,000 Euros, an award certificate, and a free conference pass for ISC High Performance in 2018.

DR. NEELAM SOUNDARAJAN EARNS LUTRON’S TEACHING AWARD

Dr. Soundarajan was given The Ohio State University, Computer Science and Engineering’s fifth Joel and Ruth Spira Excellence in Teaching Award from Lutron. This honor is awarded annually to a faculty member who has excelled in teaching and inspiring students during the academic year.

Neelam is a highly regarded computer science educator who has successfully applied his expertise to the development of the undergraduate curriculum of Computer Science and Engineering in order to deliver the best education to undergraduate students.

In addition to previously serving as Associate Chair of Academic Affairs for the CSE Department, Neelam currently serves as the chair of the undergraduate study committee which is responsible for reviewing and improving the undergraduate programs in the CSE Department. Neelam is a computer science evaluator in the Accreditation Board for Engineering and Technology. This international organization evaluates higher educational programs in the fields of applied science, computing, engineering, and technology for the purpose of setting high and quantifiable standards.
A tireless worker in the CSE department, Neelam’s research is in the area of formal methods for software engineering with particular interest in specification and verification questions. He is best known for his contributions and practice in computer science education, serving as an important leader in the CSE undergraduate program.

In addition to being recognized by Lutron with this Excellence in Teaching Award, Neelam received the highly selective and prestigious Boyer Award for Excellence in Undergraduate Teaching Innovation in the College of Engineering at Ohio State in 2006, and twice received the CSE department teaching award.

**Deep Learning Reinvents the Hearing Aid**

In its March 2017 Issue, IEEE Spectrum, the official monthly magazine of the Institute of Electrical and Electronics Engineers (IEEE), highlights CSE Professor Leon Wang’s contribution to solving the cocktail party problem in its cover story (posted at http://spectrum.ieee.org/consumer-electronics/audiovideo/deep-learning-reinvents-the-hearing-aid). With more than 420,000 members, IEEE is the largest technical professional organization in the world.

The cocktail party problem, or the problem of separating target speech from background interference, is the greatest challenge facing hearing aid wearers. Hearing loss is one of the most prevalent chronic conditions affecting 37.5 million Americans, and more than 10% of the world’s population. Although the cocktail party problem has been tackled for decades in signal processing and related fields, no system or algorithm managed to help hearing-impaired listeners better understand speech in noisy environments.

Wang’s breakthrough was based on a completely new formulation of the speech separation problem. Through his unique insights into perceptual mechanisms underlying human analysis of the acoustic scene, Wang and his students formulated speech separation as a classification problem. This reformulation has a profound consequence: the cocktail party problem could be treated as a form of supervised learning. Furthermore, Wang’s group was the first to introduce deep learning to the field of speech separation or enhancement. With the powerful capacity of deep neural networks to model large training data, his team finally succeeded in substantially elevating speech recognition performance of listeners with hearing loss (as well as listeners with normal hearing) in noisy backgrounds.

Prof. Wang is a University Distinguished Scholar, and Co-Editor-in-Chief of Neural Networks. He is also an IEEE Fellow.

**Grace Hopper 2016**

From October 19th - 21st, eleven members of The Ohio State University’s ACM-W chapter joined over 15,000 women technologists in Houston, Texas for the 2016 Grace Hopper Celebration Conference. The GHC Conference is the world’s largest conference for women in computing bringing together students, researchers, and industry professionals to learn, connect, and inspire.

ACM-W, the women’s chapter of the Association of Computing Machinery, aims to encourage and support women in technology through focused efforts on professional and personal development, community building, and outreach programs. With the support from the College of Engineering, the Department of Computer Science and Engineering, and the Undergraduate Student Government, ACM-W was able to further its mission by attending the Grace Hopper Celebration Conference.

The ACM-W group sent 11 attendees this year including 1 Ph.D. student, 3 seniors, 3 juniors and 4 sophomores.

“Attending the 2016 Grace Hopper Conference was such a unique and wonderful experience. Being surrounded by 15,000 other women in the same field was inspiring because it made it seem that you are not alone in your efforts and that all the late night study sessions are worth it. Hearing all the different women speak about their accomplishments was inspiring, and motivating
to continue to work hard. Attending the Grace Hopper Conference was an excellent idea and it opened me up to many more avenues in computer science.” - Mary Catherine Good, B.S. CSE 2019

Members came back with a new sense of confidence, tools for personal growth, and the motivation to find and craft unique paths to achieve their highest ambitions. These benefits go beyond individual growth and in fact affects the larger Ohio State community. It is difficult to inspire and guide others, if one suffers from self-doubt. Every woman who attended GHC returned with a sense of belonging and purpose. They can, in turn inculcate these feelings to other women in technology, who are unsure about if they belong in the field. ACM-W members have further opened channels of opportunities for the community by building connections with researchers, industry professionals, and students from all over the world.

ACM-W attendees have realized a responsibility to fight the prejudices that enforce the gender gap, encourage interest in those held back by self-doubt and misconceptions, and increase retention by creating supportive networks. With their different perspectives, backgrounds, and ideas, members can build each other up and take their unique insights to advance towards a more inclusive tech community.

COMPUTER ENGINEERING GRADUATE PROGRAM AT OHIO STATE IS RANDED #21
According to a Special Issue of the US News and World Report on 2018 Best Graduate Schools, the computer engineering program at Ohio State is ranked #21 among 134 programs in the country. US News and World Report surveys graduate programs in engineering, law, business, medicine and education annually based on the peer assessment from department chairs and graduate directors in the Ph.D. granted departments of computer science and engineering in the country.

FOURTH ANNUAL HACKOHI/O 2016
On the weekend of November 19-20, 2016 over 750 students from around the Midwest and beyond converged in the Ohio Union for Ohio State’s fourth annual hackathon, HackOHI/O 2016.

For 24 hours, students worked in teams to build prototypes to solve real-world problems for the chance to win over $8,000 in prizes.

Top companies from around Ohio (and the nation) sponsored the event and attended to mentor and recruit the talent on display - including Amazon Web Services, JPMorgan Chase & Co., Wexner Medical Center, Aver, JobsOhio, Capital One, Battelle, Harris, Paxata, Esri, CAS, GitHub, Namecheap, Accenture, Rev1 Ventures, Nationwide Insurance, TEKSystems, Hyland, Nationwide Children’s Hospital, Translational Data Analytics, CoverMyMeds, Exact, Cisco, Microsoft, Pillar and IBM.

Nearly doubling in attendance every year since its start, the event has also attracted a wider diversity in attendance. Not just computer science students - but also majors such as violin performance and psychology.

The number of women in attendance has also increased year after year, exceeding the gender ratio in typical computer science classrooms by 25%. Many undeclared students attended to try out the tech field and make more informed decisions in their studies.
MVAPICH SPEEDS TO #1
At the recent Supercomputing ’16 Conference, it was revealed that the MVAPICH software, created by Dr. DK Panda and the NOWLab team, is powering the fastest computer on Earth, the Sunway TaihuLight, at the National Supercomputing Center in Wuxi, China. This system is a 10,649,600-core with a peak performance at 125.4 PetaFlops, which translates to 125 quadrillion calculations per second. Its intended purposes are oil prospecting, life sciences, weather forecast, industrial design, and drug research.

MVAPICH (Message Passing Interface for InfiniBand), pronounced “em-vah-pich”, celebrates its 15th anniversary this year. The software improves the processing by connecting traditional supercomputing software with innovative networking technologies and protocols, thus increasing the data flow speed in a significant manner. It delivers the best performance, scalability and fault tolerance for high-end computing systems and servers using InfiniBand, Omni-Path, Ethernet/iWARP, and RoCE networking technologies. This software is being used by more than 2,675 organizations in 83 countries worldwide to extract the potential of these emerging networking technologies for modern systems. As of November 2016, more than 402,000 downloads have taken place from the project’s site. This software is also being distributed by many vendors as part of their software distributions.

Dr. DK Panda and the members of the NOWLab: Network Based Computing Lab is a vital part of CSE’s research efforts. Over the years members have won multiple awards and best paper recognitions at various conferences, including SC ’16. In 2011, The Ohio State University College of Engineering recognized Dr. Panda with the Innovator Award and in 2015 The Ohio State University named him a Distinguished Scholar.

BEST COMMUNITY PAPER AWARD AT MOBICOM 2016
In October, Computer Science and Engineering students and faculty of The Ohio State University received the Best Community Paper Award at the ACM Conference on Mobile Computing and Networking (MobiCom), 2016. MobiCom is a flagship conference in the area of mobile computing and wireless networking. The conference accepted only 32 papers out of 226 submissions (14.2%). From those, two were recognized for their excellence: one paper for the Best Community Paper Award, and another one for the Best Paper Award.

Led and supervised by CSE Assistant Professor Chunyi Peng, the research work was conducted by CSE Ph.D. student Haotian Deng collaborating with Ph.D. candidates Yuanjie Li and Zengwen Yuan of UCLA. The paper, titled “MobileInsight: Extracting and Analyzing Cellular Network Information on Smartphones,” details their creation of the first in-device software tool, MobileInsight, which monitors and analyzes cellular network protocol behaviors and states using commercial off-the-shelf phones. Since it offers open-access to fine-grained runtime network operations without any extra hardware or additional data from carrier networks, it bridges the gap between the research community and industry making it possible and easy for researchers and developers to accurately understand and refine how cellular protocols operate at the device and inside the network. Since its release in June 2016, more than 40 groups across the world including the USA, UK, Germany, France, Korea and China have downloaded and used this tool.

For Haotian Deng this has been a successful year. He has also co-authored two other conference accepted papers, one in NSDI’16 and one in SIGMETRICS’16. They are the top venues in the fields of computer and networking systems.
BEST PAPER HONORABLE MENTION AWARD IN THE IEEE VISUALIZATION CONFERENCE 2016

A collaborative research project between Ph.D. students Soumya Dutta, Chun-Ming Chen, in the visualization research group led by Prof. Han-Wei Shen, and Mechanical and Aerospace Engineering PhD student Gregory Heinlein and Prof. Jen-Ping Chen, has won a Best Paper Honorable Mention Award at the IEEE Visualization Conference 2016. IEEE Visualization is a premier visualization conference and is considered as the top publication venue for visualization and computer graphics researchers.

The paper “In Situ Distribution Guided Analysis and Visualization of Transonic Jet Engine Simulations” demonstrates an in situ distribution guided data summarization and visual analytics approach to help understand the rotating stall phenomenon in transonic jet engine compressors. The CFD simulation code TURBO, used in this work, is a state-of-the-art Navier-Stokes based, time-accurate computational fluid dynamics simulator.

Despite the proven high modeling accuracy of TURBO, the excessive simulation data prohibits traditional post-processing based analysis in both storage and I/O time. This work addresses these big data issues and proposes an alternative in situ analysis pathway for the study of rotating stall. The proposed technique summarizes statistics of important properties of the simulation data directly while the simulation is running using a probabilistic data modeling scheme. This in situ data summarization enables flexible and scalable anomaly detection for flow instability in post analysis, which reveals the spatiotemporal trends of rotating stall. Furthermore, the verification of the hypotheses and exploratory visualization using the summarized data are realized using probabilistic visualization techniques such as uncertain isocontouring.

RESEARCH INNOVATION DRIVES AN INDUSTRY-LEADING COMPUTATIONAL GEOMETRY ENGINE IN HIGH SPEED

The polygon overlay is a complex and time-consuming process to superimpose multiple geographic layers and their attributes to produce a new polygon layer. This process has become increasingly massive in the big data era from various applications, such as graphical information systems, electronic design automation, computer vision, image processing and motion planning solutions for robotics. The industry demands fast and efficient solutions for daily production tasks of spatial data analytics in many areas. A research innovation led by a group of Computer Science and Engineering researchers at Ohio State has timely responded to this need.

Dr. Akihiro Asahara, the CEO of Fixstars Solutions Inc. recently sent Dr. Kaibo Wang (CSE Ph.D’15) an acknowledgement letter to inform him that Fixstars has effectively developed the Geometric Performance Primitives (GPP) Library, an industry-leading and high speed computational geometry engine, based on Wang’s work published in VLDB 2012. Dr. Asahara states, “Specifically, the PixelBox algorithm of yours lays a scientific foundation for massive polygon overlay operations, which enables us to achieve a huge performance advantage (up to 25 times faster) over other similar industry products.” GPP has also been included in the GPU-Accelerated libraries of the NVIDIA Company.

PixelBox is a fast parallel algorithm for massive polygon overlay operations, which is implemented in hybrid systems of both GPUs and multicore processors, and tested by pathology image analysis workloads from hospitals. This work entitled “Accelerating Pathology Image Data Cross-Comparison on CPU-GPU Hybrid Systems” was presented in the 38th International Conference on Very Large Databases in August 2012 in Istanbul, Turkey, and was published in the Proceedings of the VLDB Endowment, No. 5, No. 11 in 2012. The authors of the paper are Kaibo Wang, Yin Huai, Rubao Lee, Fusheng Wang, Xiaodong Zhang, and Joel H. Saltz.

Both Kaibo Wang and Yin Huai received their Ph.Ds. in Computer Science and Engineering at The Ohio State University in 2015 under the supervision of Professor Xiaodong Zhang. They now work at Google and Databricks, respectively. As students, each received the Department of Computer Science and Engineering Graduate Research Awards.
Rubao Lee is a Research Scientist in OSU-CSE. When the paper was published, Drs. Fusheng Wang and Joel Saltz were on Faculty in the Bioinformatics Department at Emory University, but are now faculty members at SUNY Stony Brook.

“I am very pleased to see how another basic research work of ours directly impacts on production systems, which is a high recognition to the value of our research efforts” says Xiaodong Zhang, the Robert M. Chritchfield Professor in Engineering and Chair of Computer Science and Engineering at The Ohio State University. Several published research results in computer systems and data management from his group have been widely adopted in production systems of both hardware and software. This research impact has also been reported by ACM Technology News in January, 2017.

**Two CSE Professors Named IEEE Fellows**

The Institute of Electronics and Electrical Engineers (IEEE) has named two Department of Computer Science and Engineering Professors to the level of Fellow in the Class of 2017. IEEE recognized Dr. Tamal Dey for his contributions to Geometric Computing and Dr. Prasun Sinha is recognized for his contributions to Scheduling and Resource Allocations in Wireless Networks.

The IEEE grade of Fellow is conferred by the IEEE Board of Directors upon a person with an outstanding record of accomplishments in any of the IEEE fields of interest. IEEE Fellow is the highest grade of membership and is recognized by the technical community as a prestigious honor and an important career achievement.

A leader in the field of geometric computing, Dr. Tamal Dey has made several fundamental research contributions over the last twenty five years. His research has advanced theoretical/practical understanding of several geometric/topological problems arising in application areas of science and engineering. Specifically, his work on surface reconstruction, mesh generation, and topological data analysis have found applications in computer graphics, geometric modeling, visualization, shape and data analysis. One of the hallmarks of Dey’s work is his development of algorithms with theoretical guarantees that are useful in practice. This claim is attested to in the wide use of number of the software based on these algorithms. The most widely used geometric library and The Computational Geometry Algorithms Library (CGAL), incorporates several of his results. The Cocone software developed by his group for surface reconstruction is widely used in academia and industry. His team developed the DelPSC software which has been a basis for Synopsis to develop a new mesh generation software. Dr. Dey has written highly influential papers on a broad range of topics in geometric and topological computing and authored two books. He serves on several editorial boards of journals in geometric computing and lectures widely on the topic of geometric and topological computing in various academic forums.

The research of Dr. Prasun Sinha has led to new paradigms of communication in managed wireless networks like cellular networks and enterprise wireless local area networks. His work on resource allocation considers various practical limitations and new challenges in the areas of uplink transmission, renewable energy based networking, disconnected operations, asynchronous communication and full-duplex networking. Prasun’s other research interests include vehicular networks, indoor localization, outdoor localization and low power sensing.

Dr. Sinha’s research has been funded primarily through National Science Foundation (NSF), DARPA, Toyota, Huawei and Honda. He has led multiple $1M+ cross-university, cross-disciplinary projects. In 2006, he won an NSF CAREER award. He has chaired/co-chaired six conferences, including MobiCom 2014, the flagship conference in wireless networking and mobile computing. Next year he will be the Technical Program co-chair for IEEE INFOCOM 2018, a leading conference in networking. He has authored 100+ publications and earned four (4) patents. One of his papers was awarded the Best Student Paper Award (WiOpt 2013) and two were selected as best paper finalists (ACM Mobicom 2014 and IEEE SECON 2007).
**NEW FACULTY JOINING CSE**

Raef Bassily is currently a Data Science Postdoctoral Fellow in the Department of Computer Science & Engineering and the Center of Information Theory and Applications (ITA) at the University of California, San Diego. His current research focuses on developing practical algorithms for privacy-preserving machine learning and data analysis. His distributed protocols for histograms estimation have been recently deployed in the latest version of Apple’s iOS to enable private crowdsourcing from Apple users. He received his Ph.D. in Electrical and Computer Engineering from the University of Maryland, College Park, in 2012.

Professor Bassily will be joining the Department of Computer Science and Engineering in the Fall of 2017 as an Assistant Professor.

Jian Chen is an Assistant Professor in the Department of Computer Science and Electrical Engineering at the University of Maryland, Baltimore County (UMBC), where she leads the Interactive Visual Computing Lab (http://ivcl.umbc.edu) and UMBC’s Immersive Hybrid Reality Lab (http://tinyurl.com/ztnvdmf). She maintains general research interests in the design and evaluation of visualizations (encoding of spatially complex brain imaging, integrating spatial and non-spatial data, perceptually accurate visualization, and event analysis) and interaction (exploring large biological pathways, immersive modeling, embodiment, and gesture input). She has garnered best-paper awards at international conferences, and her work is funded by NSF, NIST, and DoD. She is also an UMBC innovation fellow and a co-chair of the first international workshop on the emerging field of Immersive Analytics. Chen did her post-doctoral research at Brown University jointly with the Departments of Computer Science (with Dr. David H. Laidlaw) and Ecology and Evolutionary Biology. She received her Ph.D. in Computer Science from Virginia Tech with Dr. Doug A. Bowman.

Professor Chen will be joining the Department of Computer Science and Engineering in the Fall of 2017 as an Assistant Professor.

Zhiqiang Lin is an Associate Professor of Computer Science at The University of Texas at Dallas. He earned his Ph.D. from the Computer Science Department at Purdue University in 2011. His primary research interests are systems and software security, with an emphasis on developing program analysis techniques and applying them to secure both application programs including mobile apps and the underlying system software such as Operating Systems and hypervisors. Dr. Lin is a recipient of the NSF CAREER Award and the AFOSR Young Investigator Award.

Professor Lin will be joining the Department of Computer Science and Engineering in January 2018 as an Associate Professor.

Dave Ogle is an IBM Distinguished Engineer in the Watson Supply Chain organization. As a technical executive, Dave is responsible for setting the technical developing the skills for a 300+ person team of programmers, designers, testers, and support engineers. Dave works closely with customers and product management to bring new and innovative offerings to market. Dave has held numerous leadership positions inside IBM encompassing all sides of the development process, from architecture, to development, to quality assurance, to delivery and support. Dave has also been actively involved in leading internship programs inside IBM throughout his career and he currently directs the highly successful program at the IBM Dublin Ohio location, which has employed more than 60 students over the last 4 years.

Dave will be joining the department as Associate Clinical Faculty in Fall 2017.
SCHOLARSHIPS

Central Ohio Chapter of Association of Computing Machinery (ACM)
  Tyler Collison

Ernest William Leggett, Jr. Scholarship The Leggett Family Award Endowment Fund
  Jarrod Manguiat
  Alexander Morgan

The O’Connell Family Award
  Zachary Allegretti
  Caleb Lehman
  Eleanor Myer
  Alexander Toney

Ten-Hwang Lai Scholarship
  Cole Albers
  Brian Baker
  Jonathan Huang
  Dylan Knaplund
  Chen Zhang

Wael Bahaa-El-Din Scholarship
  Thomas Burnett
  Paul Gillen

Women in Computer Science Scholarship
  Sarah Flanagan
  Claire Hansel

The Steve and Bridget Dritz Scholarship
  Joshua Kahn

Founders of the Computer Science and Engineering Department Scholarship Endowment Fund
  Matias Grioni
  Sean Nemann
  Vilas Winstein

Alumni Undergraduate Scholarships
  Nathan Balli
  Benjamin Clarke
  Christopher Ellis
  Kevin Hernandez
  Tyler Terbrack

CSE Undergraduate Scholarship
  Paul Costinescu
  Adam Ovak

Undergraduate Research Award
  Danny Flax

DEPARTMENT AWARDS

B. Chandrasekaran & Sandra Mamrak Graduate Fellowship
  Aniket Chakrabarti

Chair’s Service Award
  Dr. Meris Mandernach

Undergraduate Research Faculty Advising Award
  Dr. Rephael Wenger

Eleanor Quinlan Award
  Timothy Carpenter

Outstanding Teaching Award
  Michael Fritz
  Chris Kiel
  Dr. Anastasios Sidiropoulos

Outstanding Service Award
  Dr. Arnab Nandi
  Kathryn Reeves
  Nikki Strader

Joel and Ruth Spira Excellence in Teaching Award from Lutron Electronics
  Dr. Neelam Soundarajan

Honorable Mentions for Contributions to OHI/O Hackathon
  ACM-W
  Big Data Analytics Association
  Buckeye Hackers
  Collegiate Web Developers Group
  Mobile Developers Club
  Open Source Club
THE 21ST ANNUAL CSE AWARDS BANQUET

Left: Al Cline presents Jarrod Manguiat with The Leggett Family Award Endowment Fund.

Above: Tyler Collison receives the ACM award from faculty emeritus Clint Foulk.

Below: Wayne Heym gives Adam Ovak one of the CSE Undergraduate Scholarships.

Above: Advisory board member, Dana Vantrease, honors Sarah Flanagan and Claire Hansel with the Women in Computer Science Scholarship.

Right: Guests enjoying the 21st Annual CSE Awards Banquet.
## GRANT FUNDING 2016-2017

**NEW GRANTS RECEIVED IN 2016-2017 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

### GAGAN AGRAWAL

**National Science Foundation**

*XPS: FULL: Integrating Programming Model, Runtime, Algorithmic, and Architectural Support To Use Inexact and Heterogeneous Hardware for Scientific Computations*

- **08/01/2016- 07/31/2019**
- PI: Agrawal
- Co-PIs: Chou, Teodorescu
- **$875,000**

### MIKHAIL BELKIN

**National Science Foundation**

*Collaborative research: NCS-FO: Learning efficient visual representations from realistic environments across time scales*

- **09/01/2016- 08/31/2020**
- PI: Sederberg
- Senior Personnel: Belkin
- **$510,469**

**Cold Spring Harbor Laboratory (National Institutes of Health)**

*Methods from computational topology and geometry for analyzing neuronal tree and graph data*

- **09/01/2017- 08/31/2020**
- PI: Yusu Wang
- Co-PI: Belkin
- **$442,486**

**Wright State University (Ohio Federal Research Network)**

*Forward and reverse engineering took and workforce development/human centered big data & persistent location with spectrum sensing*

- **09/19/2017- 09/18/2019**
- PI: Hamm
- Co-PI: Belkin
- **$168,000**

### MIKE BOND

**National Science Foundation**

*XPS: FULL: Collaborative Research: Rethinking Architecture Support for Memory Consistency*

- **09/01/2016- 08/31/2020**
- Amount: **$410,932**
- PI: Bond
- **$343,904**

### JAMES W. DAVIS

**Battelle Memorial Institute (Air Force)**

*Context-based object classification*

- **05/01/2017- 05/31/2018**
- PI: Davis
- **$153,000**

### TAMAL DEY

**National Science Foundation**

*Conference on Topology, Geometry, and Data Analysis at The Ohio State University*

- **05/15/2016 – 05/14/2017**
- PI: Kahle
- Co-PIs: Memoli, Yusu Wang, Dey
- **$43,000**

**National Science Foundation**

*RTG: Algebraic Topology and Its Applications*

- **06/01/2016- 05/31/2021**
- PI: Kahle
- Co-PIs: Memoli, Yusu Wang, Dey, M. Davis
- **$1,722,606**

### ERIC FOSLER-LUSSIER

**National Science Foundation**

*RI: Small: Using automatically generated paraphrases and discriminative ASR training to author robust question-answering dialogue systems*

- **09/01/2016- 08/31/2019**
RAGHU MACHIRAJU
Agency for Healthcare Res & Quality
Supporting systematic review production with article similarity network visualization
09/30/2016- 09/27/2017
PI: Raghu Machiraju
Co-PIs: Fosler- Lussier, Danforth, Schuler
$450,000

DK PANDA
National Science Foundation
BD Spokes: SPOKE: MIDWEST: Collaborative: Advanced computational neuroscience network (ACNN)
09/01/2016- 08/31/2019
PI: Panda
Co-PIs: Machiraju, Ritter
$166,454

National Science Foundation
SHF: Large: Collaborative research: Next generation communication mechanisms exploiting heterogeneity, hierarchy and concurrency for emerging HPC systems
08/15/2016- 07/31/2019
PI: Panda
Co-PIs: Lu, Subramoni
$166,454

National Science Foundation
Student Travel Support for MVAPICH User Group (MUG) Meeting
08/15/2016 – 7/31/2017
PI: Panda
$10,000

Engility Corporation (US Department of Defense)
Coupling infi niBand hardware features and network-to-accelerator remote data memory access (RDMA) in the message passing interface (MPI)
09/01/2016 – 08/31/2017

PI: Panda
$200,000

Mellanox Technologies, Inc
Research on high performance and scalable MPI over InfiniBand.
04/01/2016- 03/31/2017
PI: Panda
$213,768

University of Texas at Austin (National Science Foundation)
Enabling, Enhancing and Extending Petascale Computing for Science and Engineering
3/1/17 – 9/30/17
PI: Panda
$112,500

Gifts
NVIDIA Corporation
$177,500
Intel Corp
$64,424
Microsoft Corporation
$120,000

SRINIVASAN PARTHASARATHY
National Institutes of Health
Adolescent health in an urban environment
04/14/2017- 01/31/2018
PI: Catherine Calder
Co-PI: Parthasarathy, Browning, Boettner
$1,553,888

National Science Foundation
EAGER: Towards automated characterization of the data-movement complexity of large scale analytics applications
08/15/2016-07/31/2018
PI: Sadayappan
Co-PI: Parthasarathy
$300,000

National Science Foundation
XPS: FULL: Collaborative Research: PARAGRAPH: Parallel, scalable graph analytics
09/01/2016- 08/31/2019
PI: Sadayappan  
Co-PI: Parthasarathy  
$546,875

**Gifts**
Price Waterhouse Cooper $25,000

---

**Rajiv Ramnath**

**Nationwide**

*Integrating telematics data with other data sources to develop models of driver risk*  
01/01/2017- 12/31/2017  
PI: Ramnath  
$47,746

**Astute Solutions**

*Information retrieval techniques for social customer relationship management (CRM) systems*  
01/01/2017- 12/31/2017  
PI: Ramnath  
$47,746

---

**Alan Ritter**

**Carnegie Mellon Software Engineering Institute**

*Events, Relationships, and Script Learning for Situational Awareness*  
05/02/2017- 09/30/2017  
PI: Ritter  
$40,000

---

**Leidos (Intelligence Advanced Research Projects Activity)**

*Extracting a Realtime Cybersecurity Knowledge Graph from Text*  
08/03/2016- 07/31/2019  
PI: Ritter  
$710,150

---

**Agency for Healthcare Res & Quality**

*Supporting systematic review production with article similarity network visualization*  
09/30/2016- 09/29/2017  
PI: Yen  
Co-PI: Ritter, Machiraju  
$100,000

---

**Atanas Rountev**

**Lawrence Livermore National Laboratory**

*Exascale code generation toolkit*  
05/05/2017- 04/30/2020  
PI: Sadayappan  
CO-PI: Rountev  
$370,900

---

**P. Sadayappan**

**Lawrence Livermore National Laboratory**

*Exascale code generation toolkit*  
05/05/2017- 04/30/2020  
PI: Sadayappan  
CO-PI: Rountev  
$370,900

---

**National Science Foundation**

*XPS: FULL: Collaborative Research: PARAGRAPh: Parallel, scalable graph analytics*  
09/01/2016- 08/31/2019  
PI: Sadayappan  
Co-PI: Parthasarathy  
$546,875

---

**National Science Foundation**

*EAGER: Towards automated characterization of the data-movement complexity of large scale analytics applications*  
08/15/2016-07/31/2018  
PI: Sadayappan  
Co-PI: Parthasarathy  
$300,000

---

**RNET Technologies (Defense Advanced Research Projects Agency)**

*Performance portable framework for developing graph applications*  
06/06/2016- 06/05/2018  
PI: Sadayappan  
$450,000
**Ness Shroff**  
**National Science Foundation**  
ICN-WEN: Collaborative Research: SPLICE: Secure predictive low-latency information centric edge for next generation wireless networks  
Amount: $100,000  
Role: PI  
Duration: 06/01/2017- 05/31/2018

**Office of Naval Research**  
Achieving Low Delay and Highly Adaptive Tactical Networking with Multi-Path TCP  
Amount: $900,000  
Role: PI  
Duration: 02/15/2017- 02/14/2020

**National Science Foundation**  
NeTS: Small: Enabling Mobile mmWave Communication: Achieving Low Power and Delay via a Hybrid RF Design  
Amount: $302,712  
PI: Koksal  
Co-PI: Shroff  
Duration: 10/01/2016- 09/30/2019

**Gifts**  
Huawei $130,000  
Intel $200,000

**Prasun Sinha**  
**National Science Foundation**  
NeTS: Small: Infrastructure-free Robust Relative Localization of Vehicles on the Road  
09/01/16 – 08/31/19  
PI: Sinha  
$515,998

**Office of Naval Research**  
Joint neighbor identification and channel estimation for enabling advanced MAC-PHY techniques in ad hoc networks  
06/01/2017- 05/30/2020  
PI: Srinivasan  
Co-PI: Sinha  
$300,000

**Kannan Srinivasan**  
**Office of Naval Research**  
Joint neighbor identification and channel estimation for enabling advanced MAC-PHY techniques in ad hoc networks  
06/01/2017- 05/30/2020  
PI: Srinivasan  
Co-PI: Sinha  
$300,000

**Christopher Stewart**  
**National Science Foundation**  
CNS: Travel support for the 2017 international conference on Autonomic Computing  
05/01/2017- 04/30/2018  
PI: Stewart  
$15,000

**Huan Sun**  
**Gifts**  
Fujitsu $50,000

**Radu Teodorescu**  
**National Science Foundation**  
XPS: FULL: Integrating Programming Model, Runtime, Algorithmic, and Architectural Support To Use Inexact and Heterogeneous Hardware for Scientific Computations  
08/01/2016- 07/31/2019  
PI: Agrawal  
Co-PIs: Chou, Teodorescu  
$875,000

**DeLiang Wang**  
**National Institutes of Health**  
Improving intelligibility in noise for hearing-impaired listeners  
09/01/2016 - 08/31/2017  
PI: Eric Healy  
Co-PI: Leon Wang, Apoux  
$1,573,458

**Gifts**  
Starkey $50,000
Yusu Wang
Cold Spring Harbor Laboratory (National Institutes of Health)
Methods from computational topology and geometry for analyzing neuronal tree and graph data
09/30/2016-06/30/2019
PI: Yusu Wang
Co-PI: Belkin
$447,506

National Science Foundation
AF: Small: Collaborative Research: Geometric and topological algorithms for analyzing road network data
07/01/2016-06/30/2018
PI: Yusu Wang
$189,099

National Science Foundation
Conference on topology, geometry, and data analysis at The Ohio State University
05/01/2016-04/30/2017
PI: Kahle
Co-PIs: Memoli, Yusu Wang, Dey,
$40,000

Xiaodong Zhang
Huawei
High-performance database system over GPU devices and fast RDMA networks technology research cooperation project
04/01/2017-03/30/2018
PI: X. Zhang
$360,000

National Science Foundation
Travel Support for the 36th IEEE International Conference on Distributed Computing Systems (ICDCS 2015)
08/15/2017-07/31/2017
PI: Zhang
$10,000

National Science Foundation
XPS: FULL: Collaborative Research: Maximizing the performance potential and reliability of flash-based solid state devices for future storage systems
07/01/2016-06/30/2019
PI: Zhang
$285,000

Yinqian Zhang
National Science Foundation
REU: CRII: SaTC: Rethinking side channel security on untrusted operating systems
05/01/2016-04/30/2018
PI: Y. Zhang
$8,000
<table>
<thead>
<tr>
<th>Guest Speaker</th>
<th>Institution</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raef Bassily</td>
<td>University of California, San Diego</td>
<td>Learning from Private Data without Learning Private Data</td>
</tr>
<tr>
<td>Leilani Battle</td>
<td>Massachusetts Institute of Technology</td>
<td>Behavior-Driven Optimizations for Big Data Exploration</td>
</tr>
<tr>
<td>Abhishenk Chandra</td>
<td>University of Minnesota</td>
<td>Computing with Geo-distributed Data</td>
</tr>
<tr>
<td>Ang Chen</td>
<td>University of Pennsylvania</td>
<td>Secure Diagnostics and Forensics with Network Provenance</td>
</tr>
<tr>
<td>Jian Chen</td>
<td>University of Maryland, Baltimore County</td>
<td>Interactive Visual Computing for Knowledge Discovery in Science, Engineering, and Biology</td>
</tr>
<tr>
<td>Manaal Faruqui</td>
<td>Research Scientist at Google Inc.</td>
<td>Inducing Morpho-syntactic Lexicons and Morphological Inflections</td>
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<tr>
<td>Dan Garrette</td>
<td>Research Scientist at Google, NYC</td>
<td>Learning from Weak Supervision: Combinatory Categorial Grammars and Historical Document Transcription</td>
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<tr>
<td>James Hoe</td>
<td>Carnegie Mellon University</td>
<td>CoRAM++: Data-Structure-Specific Memory Interfaces for FPGA Computing</td>
</tr>
<tr>
<td>Meng Jiang</td>
<td>University of Illinois at Urbana-Champaign</td>
<td>Data-Driven Behavioral Analytics with Networks</td>
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<tr>
<td>Samory Kpotufe</td>
<td>Princeton University</td>
<td>Self-tuning in nonparametric regression</td>
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<tr>
<td>Anasatsios Kyrillidis</td>
<td>University of Texas at Austin</td>
<td>Rethinking Algorithms in Data Science: Scaling up Optimization Using Non-Convexity, Provably</td>
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<tr>
<td>Ashwin Lall</td>
<td>Denison University</td>
<td>The k-Regret Operator</td>
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<tr>
<td>Bo Li</td>
<td>University of Michigan</td>
<td>Secure Learning in Adversarial Environments</td>
</tr>
<tr>
<td>Jiwei Li</td>
<td>Standford University</td>
<td>Teaching a Machine to Converse</td>
</tr>
<tr>
<td>Xiaojing Liao</td>
<td>Georgia Tech</td>
<td>Evaluating Security Risks and Cyber Intelligence Through Semantic-Aware Inspection Techniques</td>
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<tr>
<td>Zhinqian Lin</td>
<td>University of Texas at Dallas</td>
<td>Identifying Security Vulnerabilities in Remote Services via Automated Analysis of Mobile Apps</td>
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<tr>
<td>Kangjie Lu</td>
<td>Georgia Institute of Technology</td>
<td>Defeating Advanced Memory-Error Exploits by Preventing Information Leaks</td>
</tr>
<tr>
<td>Mehrdad Mahdavi</td>
<td>Georgia Institute of Technology</td>
<td>Defeating Advanced Memory-Error Exploits by Preventing Information Leaks</td>
</tr>
<tr>
<td>Name</td>
<td>Institution</td>
<td>Title</td>
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<tr>
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<tr>
<td>Dr. Patrick McDaniel</td>
<td>Penn State University</td>
<td>Tracing the Arc of Smartphone Application Security</td>
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<tr>
<td>Dr. Ray Mooney</td>
<td>University of Texas, Austin</td>
<td>Generating Natural-Language Video Descriptions using LSTM Recurrent Neural Networks</td>
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<tr>
<td>David Naylor</td>
<td>Carnegie Mellon University</td>
<td>Privacy in the Internet (Without Giving up Everything Else)</td>
</tr>
<tr>
<td>Mitsunori Oghara</td>
<td>University of Miami</td>
<td>Exploring Digital Humanities</td>
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<tr>
<td>Reza Shokri</td>
<td>Cornell Tech</td>
<td>Data Privacy: How to Survive Inference Avalanche</td>
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<tr>
<td>Philip Thomas</td>
<td>Carnegie Mellon University</td>
<td>Safe Machine Learning</td>
</tr>
<tr>
<td>Zhaoran Wang</td>
<td>Princeton Wang</td>
<td>Taming Nonconvexity with Data</td>
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<tr>
<td>Venu Satuluri</td>
<td>Twitter</td>
<td>Machine Learning for Recommender Systems at Twitter</td>
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<td>Zheng Yang</td>
<td>Tsinghua University</td>
<td>Enabling Sensorless Sensing with WiFi Radar</td>
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<td>Zhou Yu</td>
<td>Carnegie Mellon University</td>
<td>Situated Intelligent Interactive Systems</td>
</tr>
</tbody>
</table>
### Ten Year Statistical History - Teaching Overview

<table>
<thead>
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<tbody>
<tr>
<td><strong>Number of Faculty</strong></td>
<td>33</td>
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<td><strong>Course Enrollment/ Autumn Qtr.</strong></td>
<td>3,238</td>
<td>3,386</td>
<td>3,702</td>
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<td>5,737</td>
<td>6,508</td>
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<td><strong>Students Taught</strong></td>
<td>10,641</td>
<td>11,185</td>
<td>12,209</td>
<td>12,689</td>
<td>13,744</td>
<td>14,523</td>
<td>12,457</td>
<td>14,463</td>
<td>15,484</td>
<td>16,697</td>
<td>17,037</td>
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</table>

*The term/year of the conversion to semesters.

### The Graduate Program

The number of applications to the CSE graduate program has been high for many years. Admissions to the Ph.D. program is particularly selective. Our graduate program is research intensive, where faculty and students make their best efforts to push the frontiers and advance the knowledge of information technology. Many of our MS and Ph.D. graduates have become leaders in academia and industries.
<table>
<thead>
<tr>
<th>Name</th>
<th>Post Graduation Destination</th>
<th>Advisor Hometown</th>
<th>Vita</th>
<th>Dissertation Title</th>
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<tbody>
<tr>
<td><strong>Dr. Joseph Anderson</strong></td>
<td>Assistant Professor of Computer Science at Salisbury University</td>
<td>Columbus, Ohio, USA</td>
<td>Dr. Anastasios Sidiropoulos</td>
<td>Geometric Methods for Robust Data Analysis in High Dimension</td>
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<tr>
<td></td>
<td>Dr. Anastasios Sidiropoulos</td>
<td></td>
<td>B.S., Saint Vincent College; M.S., The Ohio State University</td>
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<tr>
<td><strong>Dr. Anys Bacha</strong></td>
<td>Software Engineer at Hewlett Packard, Sacramento, California</td>
<td>Dublin, Ohio</td>
<td>Dr. Mircea-Radu Teodorescu</td>
<td>Harnessing on-chip error correction for energy efficiency and security</td>
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<tr>
<td></td>
<td>Dr. Mircea-Radu Teodorescu</td>
<td></td>
<td>B.S.; M.S. Western Michigan University; M.S., The Ohio State University</td>
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<tr>
<td><strong>Dr. Ayan Biswas</strong></td>
<td>Post Doc Researcher, Los Alamos National Labs</td>
<td>Mankundu India</td>
<td>Dr. Han-Wei Shen</td>
<td>Uncertainty and Error Analysis in the Visualization of Multidimensional and Ensemble Data Sets</td>
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<td></td>
<td>Dr. Han-Wei Shen</td>
<td></td>
<td>B.S. ptr.Sci.Eng., Jadavpur University; M.S., The Ohio State University</td>
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<tr>
<td><strong>Dr. Swarnendu Biswas</strong></td>
<td>Post-Doc Fellow, Institute of Computational Engineering &amp; Sciences, The University of Texas at Austin</td>
<td>Durgapur, India</td>
<td>Dr. Michael Bond</td>
<td>Practical support for strong serializability-based memory consistency</td>
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<td></td>
<td>Dr. Michael Bond</td>
<td></td>
<td>B. Engr., National Institutes of Technology India; M.S., Indian National Institute of Technology</td>
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<td></td>
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<td></td>
<td>Kharagpur; M.S. The Ohio State University</td>
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<tr>
<td><strong>Dr. Di Cao</strong></td>
<td>Graduate Teaching Assistant, The Ohio State University</td>
<td>Columbus, Ohio</td>
<td>Dr. Richard Parent</td>
<td>Physically Based Simulation of Various Fabrics with Multi-Level Modeling</td>
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<td></td>
<td>Dr. Richard Parent</td>
<td></td>
<td>B.S., Fudan University; M.S., The Ohio State University</td>
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<tr>
<td><strong>Dr. Man Cao</strong></td>
<td>Software Engineer at Google, Sunnyvale California</td>
<td>Jinan, China</td>
<td>Dr. Michael Bond</td>
<td>Efficient, Practical Dynamic Program Analyses for Concurrency Correctness</td>
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<td></td>
<td>Dr. Michael Bond</td>
<td></td>
<td>Bachelor’s, Zhejiang University; M.S., The Ohio State University</td>
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<tr>
<td><strong>Dr. Chun-Ming Chen</strong></td>
<td>Software Engineer Google</td>
<td>Taichung City, Taiwan</td>
<td>Dr. Han-Wei Shen</td>
<td>Data summarization for large time-varying flow visualization and analysis</td>
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<td></td>
<td>Dr. Han-Wei Shen</td>
<td></td>
<td>B.S., National Chiao Tung University; M.S., University of Southern California</td>
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<tr>
<td><strong>Dr. Jitong Chen</strong></td>
<td>Research Scientist at Baidu Silicon Valley AI Lab</td>
<td>Xianju, Zhejiang, China</td>
<td>Dr. Deliang Wang</td>
<td>On Generalization of Supervised Speech Separation</td>
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<td></td>
<td>Dr. Deliang Wang</td>
<td></td>
<td>Bachelor’s, Northeastern University; M.S., The Ohio State University</td>
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<tr>
<td><strong>Dr. Hao Ding</strong></td>
<td>Sr. Statistical Analyst, DGTC, Bentonville, AR</td>
<td>Columbus, OH</td>
<td>Dr. Raghu Machiraju</td>
<td>Visualization and Integrative analysis of cancer multiomics data</td>
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<td>Dr. Raghu Machiraju</td>
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<td>Bachelor’s, Tongji University</td>
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<tr>
<td><strong>Dr. Dustin Hoffman</strong></td>
<td>Odenton, MD</td>
<td>Columbus, Ohio</td>
<td>Dr. Bruce Weide</td>
<td>Techniques for the specification and verification of enterprise applications</td>
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<td></td>
<td>Dr. Bruce Weide</td>
<td></td>
<td>B.S., M.S., The Ohio State University</td>
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</tbody>
</table>
Dr. Dachuan Huang
Software Engineer at Snap Inc., Columbus, Ohio
B.Engr., M.S., Huazhong University of Science and Technology; M.S., The Ohio State University
Improving Performance in Large-Scale Distributed Systems by Exploiting Data Placement

Dr. Nusrat Islam
Software Engineer at Intel Corporation, Columbus, Ohio
B.S., Bangladesh University of Engineering and Technology; M.S. The Ohio State University
High Performance File System and I/O Middleware Design for Big Data on HPC Clusters

Dr. Ke Jiang
Data Scientist, Microsoft, WA
B.S., Wuhan University; M.S., The Ohio State University
Small-Variance Asymptotics for Bayesian Models

Dr. Gang Li
Post Doc Researcher with The Ohio State University
B.Engr., Master’s, Tongji Universty
A Holistic Study on Electronic and Visual Signal Integration for Efficient Surveillance

Dr. Qihang Li
Conversant Media
B.S., Hangzhou; M.S., Morehead State University; M.S., The Ohio State University
Visual Analytics of Patterns of Gene Expression in the Developing Mammal Brains

Dr. Jiaqi Liu
Facebook
B.S., Beihang University; M.S., The Ohio State University
Handling Soft and Hard Errors for Scientific Applications

Dr. Xiaotong Liu
Research Staff, IBM Research - Almaden
B.S., Shanghai Jiao Tong University; M.S., The Ohio State University
Visual Exploration and Comparative Analytics of Multidimensional Data Sets

Dr. Kewei Lu
Software Engineer at GoDaddy, San Francisco, California
B.Engr., Wuhan University of Technology; M.S., The Ohio State University
Distribution-based Exploration and Visualization of Large-Scale Vector and Multivariate Fields

Dr. Xiang Pan
Senior Engineer, Qualcomm Technologies, Inc., Austin,TX
Bachelor’s, Beijing University of Posts and Telecommunications; Hebei University of Technology; M.S., The Ohio State University
Designing Future Low-Power and Secure Processors with Non-Volatile Memory

Dr. Md. Wai ur Rahman
HPC Software Engineer at Intel Coporation, Austin, TX
B.S., Bangladesh University of Engineering and Technology; M.S., The Ohio State University
Designing and Modeling High-Performance Mapreduce and DAG Execution Framework on Modern HPC SystemsIntegral Equations in Machine Learning Problems

Dr. Samyam Rajbhandari
Sr. Research Software Development Eng at Microsoft, Columbus, OH
B.A., Williams College; M.S. The Ohio State University
Locality Optimizations for Regular and Irregular Applications
Dr. Aritra Sengupta
Samsung Research America
Kolkata, India
Bachelor’s, Vellore Institute of Technology; M.S., The Ohio State University
Legato: End-to-End Bounded Region Serializability Using Commodity Hardware Transactional Memory

Dr. Yinxuan Shi
Game Technology Engineer, Apple
Taicang, Suzhou, China
B.S., University of Electronic Science and Technology of China
Procedural Content Generation for Computer Games

Dr. Chaitanya Shivade
Research Staff Member at IBM, San Francisco, California
Pune, India
B.Engr., University of Pune; M.S., The Ohio State University
How sick are you? Methods for Extracting Textual Evidence to Expedite Clinical Trial Screening

Dr. Xin Tong
Software Engineer Member at Nokia Technologies, Columbus, OH
Columbus, OH
B.Engr., Tongji University; M.S., The Ohio State University
Interactive Visual Clutter Management in Scientific Visualization

Dr. Akshay Venkatesh
Software Engineer at NVIDIA, Santa Clara, CA
Bangalore, India
B.Tech., National Institute of Technology India
High-Performance Heterogeneity/Energy-Aware Communication for Multi-Petaflop HPC Systems

Dr. Xiaofeng Wu
Software Engineer, Houzz
Quanzhou, Fujian, China
B.Engr., Harbin Institute of Technology; M.S., The Ohio State University
Reduced Deformable Body Simulation with Richer Dynamics

Dr. Fan Yang
Columbus, OH

Dr. Ingy Youssef
Post Doc Researcher, The Ohio State University
Cairo, Egypt
Bachelor’s, M.S., Ain Shams University; M.S., The Ohio State University
Trust via Common Languages

Dr. Yang Zhang
Google Inc.; Columbus, OH USA
Taizhou, Jiangsu, China
B.S., Zhejiang University; M.S., The Ohio State University
Visually Analyzing Large Scale Graphs

Dr. Yuan Yuan
Google, Inc
Columbus, OH
Bachelor’s, Huazhong University of Science and Technology; Master’s University of Chinese Academy of Sciences; M.S., The Ohio State University
Advanced Concurrency Control Algorithm Design and GPU System Support for High Performance In-Memory Data Management

Dr. Minjia Zhang
Senior Research Software Development Engineer at Microsoft, Redmond WA
Columbus, OH
B.Engr., Master’s, Huazhong University of Science and Technology; M.S., The Ohio State University
CEfficient Runtime Support for Reliable and Scalable Parallelism
## Masters Graduates

<table>
<thead>
<tr>
<th>Name</th>
<th>Advisor</th>
<th>Home</th>
<th>Vita</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bhavya Arora</td>
<td>DK Panda</td>
<td>Dehradun, Uttarakhand, India</td>
<td>B.Tech., Uttarakhand Technical Institute</td>
</tr>
<tr>
<td>Albert Mathews Augustine</td>
<td>DK Panda</td>
<td>Mumbai, India</td>
<td>B. Engr., University of Mumbai</td>
</tr>
<tr>
<td>Wenlei Bao</td>
<td>P. Sadayaoaan</td>
<td>Shijiazhuang, China</td>
<td>Bachelor's, M.S. Harbin Institute of Technology; M.S. The Ohio State University</td>
</tr>
<tr>
<td>Anmol Bhatia</td>
<td>Anish Arora</td>
<td>Nilokheri, India</td>
<td>B.Tech., National Institute of Technology, India</td>
</tr>
<tr>
<td>Fang Cao</td>
<td>Spyridon Blanas</td>
<td>Beijing, China</td>
<td>B.Engr., Beijing Institute of Technology</td>
</tr>
<tr>
<td>Man Cao</td>
<td>Michael Bond</td>
<td>Jinan, China</td>
<td>Bachelor’s, Zhejiang University</td>
</tr>
<tr>
<td>Keerthi Chadalavada</td>
<td>Michael Bond</td>
<td>Vijayawada, Andhra Pradesh, India</td>
<td>B. Engr., Birla Institute of Technology and Science</td>
</tr>
<tr>
<td>Ankur Chaudhry</td>
<td>P. Sadayappan</td>
<td>Moradabad, India</td>
<td>B. Tech., SASTRA University</td>
</tr>
<tr>
<td>Linhu Chen</td>
<td>Han-Wei Shen</td>
<td>Columbus, Ohio</td>
<td>B.S., Shanghai Jiao Tong University; Master’s, Fundan University</td>
</tr>
<tr>
<td>Young Suk Cho</td>
<td>Eric Fosler-Lussier</td>
<td>Seoul, Korea</td>
<td>B.S., Handong Global Univeristy; M.S., Georgia Institute of Technology</td>
</tr>
<tr>
<td>Bratati Das</td>
<td>Ten-Hwang Lai</td>
<td>Kolkata, India</td>
<td></td>
</tr>
<tr>
<td>Meghan Day</td>
<td>Eric Fosler-Lussier</td>
<td>Columbus, OH</td>
<td>B. A., The Ohio State University</td>
</tr>
<tr>
<td>Yashas Devaraju</td>
<td>Arnab Nandi</td>
<td>Bangalore, India</td>
<td>B.Engr., M.S., Birla Institute of Technology and Science</td>
</tr>
<tr>
<td>Soumya Dutta</td>
<td>Han-Wei Shen</td>
<td>Kolkata, India</td>
<td>Bachelor’s. Maulana Abil Kala, Azad University of Technology</td>
</tr>
<tr>
<td>Roee Edenstein</td>
<td>Gagan Agrawal</td>
<td>Columbus, OH</td>
<td>B.S., The Open University of Israel</td>
</tr>
<tr>
<td>Esteban Escobar Alfaro</td>
<td>Deliang Wang</td>
<td>Ban Chang, China</td>
<td>B.S. Cptr.Sci.Eng., The Ohio State University</td>
</tr>
<tr>
<td>Soren Alok Raj Goyal</td>
<td>Chunyo Peng</td>
<td>New Belhi, India</td>
<td>M.S., Indian Institute of Technology Bombay</td>
</tr>
<tr>
<td>Chaoqun Guo</td>
<td>Alan Ritter</td>
<td>Zibo, China</td>
<td>B.S., China University of Mining and Technology</td>
</tr>
<tr>
<td>Saurabh Gupta</td>
<td>Han-Wei Shen</td>
<td>Jaipur, India</td>
<td>B.Tech., Vellore Institute of Technology</td>
</tr>
<tr>
<td>Songyuan Hai</td>
<td>Ness Shroff</td>
<td>Zhengzhou, China</td>
<td>B.S. Cptr.Sci.Eng., Central South University</td>
</tr>
</tbody>
</table>
Senyang Hu
Anastasios Sidiropoulos
Columbus, OH
Bachelor’s, Northeastern University

Nusrat Islam
DK Panda
Dhaka, Bangladesh
B.S., Bangladesh University of Engineering and Technology

Gaganjit Jhally
P. Sadayappan
Singapore, Singapore
B. Engr., Nanyang Technological University, Singapore

Lilong Jiang
Arnab Nandi
Laizhou, China
Bachelor’s, Northeastern University

Jian Jin
Prasun Sinha
Shanghai, China
Bachelor’s, Shanghai Jiao Tong University

Minchael Johnson
Srinivasan Parthasarathy
Columbus, Ohio
B.S., Brigham Young University

Chaitanya Krishna Kande
Christopher Stewart
Hyderabad, India
B. Tech., Vellore Institute of Technology

Jhansi Lakshmi Kolla
Neelam Soundarajan
Nellore, Andhra Pradesh, India
B.Tech., National Institute of Technology Calicut

Ashish Gupta Konda
Kannan Srinivasan
Bangalore, India
B.Engr., Visvesvaraya Technological University

Lakshmikanth Krishnan Kaushik
Arnab Nandi
Bangalore, India
B.Engr., Visvesvaraya Technological University

Kunal Kulkarni
DK Panda
Bangalore, India
B.Engr., Visvesvaraya Technological University

Sangeeta Kumari
Anish Arora
Jamshedpur, India
B. Tech., KIIT University

Rakshith Kunchum
P. Sadayappan
Bangalore, India
B.Tech., Indian Institute of Technology Roorkee

Jiyuan Li
Deliang Wang
Beijing, China
Bachelor’s Fudan University

Shuang Li
Huamin Wang
Wenzhou, China
Bachelor’s, Xidian University

Siyuan Li
Yang Wang
Hengshui, China
B.S., Wuhan University

Yanjie Li
Yusu Wang
Zhengzhou, China
B.S.Cptr.Sci.Eng., The Ohio State University

Xia Li
Yusu Wang
Beijing, China
B.S., China Agricultural University

Xiang Li
Gagan Agrawal
Upper Arlington, Ohio
Bachelor’s, M.S., Tsinghua University; M.S., Ph.D., The Ohio State University

Zhouran Li
Xiaodong Zhang
Jinan, China
B.S.Cptr.Sci.Eng., Beijing Institute of Technology

Nan Liang
Dong Xuan
Shiyan, China
Bachelor’s, Wuhan Univeristy

Jiongqian Liang
Srinivasan Parthasarthy
Columbus, Ohio
B.Engr., Beihang Univeristy
Xiaojing Lin
Xiaodong Zhang
Shanghai, China
B.Engr., Tongji University

Daniel Thomas Meehan III
Gagan Agrawal
Westlake, Ohio
B.S.Cptr.Sci.Eng., The Ohio State University

Siva Meenakshi Renganathan
Christopher Stewart
Chennai, India
B. Engr., Anna University

Rajaditya Mukherjee
Huamin Wang
Kolkata, India
Bachelor’s, Jadavpur University

Abhijit Nayak
Srinivasan Parthasarathy
Bhubaneswar, OR
B.Tech., National Institute of Technology, India

Agustin Ortiz III
Rajiv Ramnath
Columbus, Ohio
B.S., Bowling Green State University

Xiang Pan
Mircea-Radu Teodorescu
Wuhan, China
Bachelor’s, Beijing University of Posts and Telecommunications

Yue Qiao
Anish Arora
Chuzhou, China
B.Engr., University of Science and Technology of China

Shirdhar Ramachandran
P. Sadayappan
Chennai, India
Bachelor's, Birla Institute of Technology and Science

Rashmi Jayathirtha Rao
Christopher Stewart
Bangalore, India
B.Engr., Vivesvaraya Technological University

Ramya Ravishankar
Eric Fosler-Lussier
Chennai, India
B.Tech., Anna University

Alfred Rossi III
Tamal Dey
Hilliard, Ohio
B.S., M.S., The Ohio State University

Anirban Roychowdhury
Srinivasan Parthasarathy
Kolkata, India
Bachelor’s, Jadavpur University

Spencer Rudolph
Mircea-Radu Teodorescu
Gate Mills, Ohio
B.S.Cptr.Sci.Eng., The Ohio State University

Bobo Shi
P. Sadayappan
Jinchang, China
B.S., Fudan University; M.S., Ph.D., The Ohio State University

Dayu Shi
Tamal Dey
Shenyang, China
Bachelor’s, M.S., Northeastern University

Saurabh Singh
P. Sadayappan
New Delhi, India
B. Engr, University of Delhi

Sreyas Srimath Tirumala
Eric Fosler-Lussier
New Delhi, India
B.S., Guru Gobind Singh Indraprastha University

Xiaowen Sun
Mircea-Radu Teodorescu
Dublin, Ohio
B.S.Cptr.Sci.Eng., The Ohio State University

Sandesh Swamy
Alan Ritter
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B. Engr., Vivesvaraiah Technological University

Arrvind Venugopal
Eric Fosler-Lussier
Vellore, India
B.Tech., Amrita University

Sanjana Wadhwa
Han-Wei Shen
Bhopal, India
B. Tech., Maulana Azad National Institute of Technology
Tzu-Hsuan Wei  
Han-Wei Shen  
Columbus, Ohio  
B.S., M.S., National Central University, Taiwan

Zhenyu Wu  
Han-Wei Shen  
Columbus, Ohio  
B.Engr., Shanghai Jiao Tong University

Miaojun Yao  
Huamin Wang  
Columbus, Ohio  
Bachelor’s, Zhejiang University

Kevin Yen  
Han-Wei Shen  
Hilliard, Ohio  
B.S., National Central University, Taiwan

Yuan Yuan  
Xiaodong Zhang  
Columbus, Ohio  
Bachelor’s, Huazhong University of Science and Technology; Master’s Chinese Academy of Science

Zhicheng Yue  
Prasun Sinha  
Guangzhou, China  
B. Engr., South China University of Technology

Xu Zhang  
Paul Sivilotti  
Baotou, China  
B. Engr., Tongji University

Younsheng Zhang  
Neelam Soundarajan  
Liaoning, China  
Bachelor’s, Beijing Jiaotong University

Tong Zhao  
Han-Wei Shen  
Beijing, China  
B.Engr., Beijing University of Posts and Telecommunications; B.S., Queen Mary University of London

Zicong Zheng  
Christopher Stewart  
Foshan, China  
B. Engr., South China University of Technology

Zilong Zou  
Mircea-Radu Teodorescu  
Fengxin, China  
B.Engr., Beijing University
The undergraduate program of CSE (BS degrees) in the College of Engineering, and CIS (BA degrees) in the College of Arts and Sciences continue to grow to respond to the increasingly high demand of society and industries. The size of enrollment and the number of BA/BS degrees awarded increase steadily. The undergraduates in CSE and CIS are competitive majors at Ohio State, which require a high GPA qualification.

<table>
<thead>
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</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, 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. Leslie is the primary advisor for CSE transfer and international students and is the major advisor for BS-CIS students. She is also on the 2015-2016 Executive Committee of ACADAOS in the role of Secretary.

Chris 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.
## 2015 - 2016 Bachelors Graduates

### College of Arts and Sciences

<table>
<thead>
<tr>
<th>Name, Degree</th>
<th>Home</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thomas Antenucci, BS</strong></td>
<td>Mason, Ohio, USA</td>
</tr>
<tr>
<td><strong>Dong Jo Ban, BS</strong></td>
<td>Seoul, South Korea</td>
</tr>
<tr>
<td><strong>Daniele Bellutta, BS</strong></td>
<td>La Crescenta, California, USA</td>
</tr>
<tr>
<td><strong>Jillian Bendt, BS</strong></td>
<td>Findlay, Ohio, USA</td>
</tr>
<tr>
<td><strong>Joshua Brown, BS</strong></td>
<td>Upper Arlington, Ohio, USA</td>
</tr>
<tr>
<td><strong>Max Buck, BS</strong></td>
<td>Cleveland, Ohio, USA</td>
</tr>
<tr>
<td><strong>Mark Caldwell, BS</strong></td>
<td>North Canton, Ohio, USA</td>
</tr>
<tr>
<td><strong>Taylor Case, BS</strong></td>
<td>Powell, Ohio, USA</td>
</tr>
<tr>
<td><strong>Crystal Ceballos, BS</strong></td>
<td>Canfield, Ohio, USA</td>
</tr>
<tr>
<td><strong>Joseph Chagnon, BS</strong></td>
<td>Columbus, Ohio, USA</td>
</tr>
<tr>
<td><strong>Nicholas Chehade, BS</strong></td>
<td>Solon, Ohio, USA</td>
</tr>
<tr>
<td><strong>Floyd Claprood, BS</strong></td>
<td>Dublin, Ohio, USA</td>
</tr>
<tr>
<td><strong>Daniel Coyle, BA</strong></td>
<td>Maumee, Ohio, USA</td>
</tr>
<tr>
<td><strong>Matthew Cramblett, BS</strong></td>
<td>London, Ohio, USA</td>
</tr>
<tr>
<td><strong>Nicholas Curto, BS</strong></td>
<td>Findlay, Ohio, USA</td>
</tr>
<tr>
<td><strong>Bowen Dai, BS</strong></td>
<td>Hangzhou, China</td>
</tr>
<tr>
<td><strong>Tyler Degen, BS</strong></td>
<td>Williamsville, NY, USA</td>
</tr>
<tr>
<td><strong>Derrick Dent, BS</strong></td>
<td>Cleveland, Ohio, USA</td>
</tr>
<tr>
<td><strong>Colin Dolan, BS</strong></td>
<td>Galloway, Ohio, USA</td>
</tr>
<tr>
<td><strong>Ian Frankenbury, BA</strong></td>
<td>Findlay, Ohio, USA</td>
</tr>
<tr>
<td><strong>Jessica Gillespie, BS</strong></td>
<td>Columbus, Ohio, USA</td>
</tr>
<tr>
<td><strong>Kyle Gordon, BS</strong></td>
<td>West Chester, Ohio, USA</td>
</tr>
<tr>
<td><strong>Daniel Gratz, BS</strong></td>
<td>Columbus, Ohio, USA</td>
</tr>
<tr>
<td><strong>Julie Green, BS</strong></td>
<td>Liberty Twp, Ohio, USA</td>
</tr>
<tr>
<td><strong>Wen Gu, BS</strong></td>
<td>Shanghai, China</td>
</tr>
<tr>
<td><strong>Jacob Haynes, BS</strong></td>
<td>Cincinnati, Ohio, USA</td>
</tr>
<tr>
<td><strong>Xin Huang, BS</strong></td>
<td>Columbus, Ohio, USA</td>
</tr>
<tr>
<td><strong>Christina Hummel, BS</strong></td>
<td>Midlothian, Virginia, USA</td>
</tr>
<tr>
<td><strong>Aaron Jenkins, BS</strong></td>
<td>Columbus, Ohio, USA</td>
</tr>
<tr>
<td><strong>Kyle Justice, BS</strong></td>
<td>Grove City, Ohio, USA</td>
</tr>
<tr>
<td><strong>Joseph Kay, BS</strong></td>
<td>Strongsville, Ohio, USA</td>
</tr>
<tr>
<td><strong>Adam Kimble, BS</strong></td>
<td>Bryan, Ohio, USA</td>
</tr>
<tr>
<td><strong>Thomas Leung, BS</strong></td>
<td>Strongsville, Ohio, USA</td>
</tr>
</tbody>
</table>
Jincheng Liu, BS
Summa Cum Laude
Columbus, Ohio, USA

Sachinda Liyanaarachchi, BS
Colombo, Sri Lanka

Yun Ma, BS
Columbus, Ohio, USA

Assen Marinov, BS
Reminderville, Ohio, USA

Aaron McCanty, BS
Magna Cum Laude with Honors in Arts & Sciences
Cincinnati, Ohio, USA

Kelly McCleese, BS
Columbus, Ohio, USA

Ryan Mulac, BS
Brecksville, Ohio, USA

Mark Naderer, BS
Eastlake, Ohio, USA

Asanka Nanayakkara, BS
Columbus, Ohio, USA

Eva Naumoff, BS
Columbus, Ohio, USA

Benjamin Oberhaus, BS
Cum Laude, with Honors in Arts & Sciences
Swanton, Ohio, USA

Eric Olson, BS
Magna Cum Laude
Belle Center, Ohio, USA

Haifan Ou, BS
Cum Laude
Dongguan, China

Alexander Overfi rld, BS
Cuyahoga Falls, Ohio, USA

Sage Peasron, BS
Worthington, Ohio, USA

Kyle Perkins, BA
Mason, Ohio, USA

Tyler Prince, BS
Marietta, Ohio, USA

Christopher Radebaugh, BS
Elida, Ohio, USA

Sean Robbins, BS
Cum Laude
Akron, Ohio, USA

Jamie Silva, BS
Summa Cum Laude with Honors in Arts & Sciences
Liberty Twp., Ohio, USA

Jodi Smith, BS
Columbus, Ohio, USA

Robert Steele, BS
Twinsburg, Ohio, USA

Charles Stevenson, BA
Washington Court House, Ohio, USA

Matthew Weiss, BS
Beavercreek, Ohio, USA

Adam Wheeler, BA
Summa Cum Laude, with Honors in Arts & Sciences
Columbus, Ohio, USA

Michael Wilson, BS
Columbus, Ohio, USA

Denver Woodward, BS
Cum Laude
Columbus, Ohio, USA

Alexander Wunderlich, BS
Cum Laude
Upper Arlington, Ohio, USA

Zilong Xu, BS
Beijing, China

Zhenfang Yan, BA
Wenzhou, China

Rubin Zhang, BS
Magna Cum Laude with Honors in Arts & Sciences
Columbus, Ohio, USA

Shaoguang Zhao, BS
Shijiazhuang, China

College of Engineering

Name (All degrees are Bachelors of Science in Computer Science and Engineering
Honor(s) Earned
Home

Michael Abbott
Dublin, Ohio, USA
Cameron Adams  
Columbus, Ohio, USA

Karl Ahlqvist  
Worthington, Ohio, USA

Austin Alexander  
Cum Laude  
Alexandria, Ohio, USA

Benjamin Allen  
West Chester, Ohio, USA

Jason Almeida  
Pleasanton, California, USA

Mike Alquist  
Brecksville, Ohio, USA

Mariamawit Alula  
Cum Laude  
Columbus, Ohio, USA

Akhil Anilkumar  
Lewis Center, Ohio, USA

Kellen Anker  
Robbinsville, New Jersey, USA

Jonathan Arnett  
Cincinnati, Ohio, USA

Bryan Arnold  
Cum Laude  
Columbus, Ohio, USA

Saad Asim  
Summa Cum Laude  
Galloway, Ohio, USA

Derek Ault  
Columbus, Ohio, USA

Tyler Axt  
Liberty Township, Ohio, USA

James Baker  
Cum Laude  
Woodsfield, Ohio, USA

Alexandru Barbur  
Columbus, Ohio, USA

John Barnett  
Granville, Ohio, USA

Dylan Barrow  
Columbus, Ohio, USA

Jennifer Barry  
Cum Laude  
Reynoldsburg, Ohio, USA

Matthew Bartholomew  
Magna Cum Laude  
Logan, Ohio, USA

Ryan Bates  
Chillicothe, Ohio, USA

Brae Baumgartner  
Cum Laude  
Columbus, Ohio, USA

Connor Bayzath  
Chesterland, Ohio, USA

Danielle Beckley  
Tiffin, Ohio, USA

Daniel Bedich  
Warren, Ohio, USA

Sidney Beier  
Columbus, Ohio, USA

Alexandra Beigel  
Magna Cum Laude  
Sidney, Ohio, USA

Alexandra Bell  
Galloway, Ohio, USA

Evyatar Ben-Asher  
Magna Cum Laude  
Cupertino, California, USA

Abigail Benedict  
Cum Laude  
Canton, Ohio, USA

Aaron Benson  
Groveport, Ohio, USA

Michael Berkovich  
Columbus, Ohio, USA

Shantanu Bhardwai  
Strongsville, Ohio, USA

Gregory Bomkamp  
Cincinnati, Ohio, USA

Nathan Borak  
Allentown, Pennsylvania, USA

Kyla Bouldin  
Santa Fe, New Mexico, USA

David Browning  
Delaware, Ohio, USA

John Butts  
Whitehouse, Ohio, USA
* **Rory Caputo**  
  Willowbrook, Illinois, USA

* **Matthew Carney**  
  Powell, Ohio, USA

* **Nicholas Carroll**  
  Galloway, Ohio, USA

* **Thomas Centa**  
  Cum Laude  
  Solon, Ohio, USA

* **Joseph Chandler**  
  Gahanna, Ohio, USA

* **Duc Chau**  
  Cum Laude  
  Cincinnati, Ohio, USA

* **Jin Heng Cheah**  
  Columbus, Ohio, USA

* **Xinya Chen**  
  Beijing, China

* **Yuze Chen**  
  Cum Laude  
  Hefei, China

* **Aaron Christie**  
  Kirtland, Ohio, USA

* **Kee Sern Chua**  
  Cum Laude  
  Sungai Buloh, Malaysia

* **Evan Clark**  
  Cum Laude  
  Cuyahoga Falls, Ohio, USA

* **Joshua Clark**  
  Summa Cum Laude with Honors in Engineering  
  Troy, Ohio, USA

* **Christina Clyde**  
  Magna Cum Laude  
  Liberty Township, Ohio, USA

* **Marielle Edrienne Co**  
  Cum Laude with Honors in Engineering  
  Cincinnati, Ohio, USA

* **Pavle Coric**  
  Columbus, Ohio, USA

* **John Cramer**  
  Zanesville, Ohio, USA

* **Daniel Cunningham**  
  Willowick, Ohio, USA

* **Thomas Dail**  
  Wooster, Ohio, USA

* **Evan Danish**  
  Magna Cum Laude  
  Gahanna, Ohio, USA

* **Mychelle Decker**  
  New Carlisle, Ohio, USA

* **Frederick Deiderich**  
  Summa Cum Laude with Honors in Engineering  
  Hilliard, Ohio, USA

* **Taylor DeJesus**  
  Ravenel, South Carolina, USA

* **Dustin Dieker**  
  Galena, Ohio, USA

* **Joseph Donnelly**  
  Cincinnati, Ohio, USA

* **Leah Dello**  
  Hamilton, Ohio, USA

* **Alexander Edgar**  
  Dublin, Ohio, USA

* **Hani Ewais**  
  Mentor, Ohio, USA

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* **Trenton Gibson**  
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* **Glen Giffey**  
  Dublin, Ohio, USA

* **Margaret Gilbert**  
  Bloomfield, Michigan, USA

* **Zaccary Gioffre**  
  West Pointe, Texas, USA

* **Skylor Gomes**  
  Chesterland, Ohio, USA
<table>
<thead>
<tr>
<th>Name</th>
<th>Degree</th>
<th>Location</th>
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<tbody>
<tr>
<td>Ziming Gong</td>
<td></td>
<td>Nantong, China</td>
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<tr>
<td>William Greer</td>
<td>Summa Cum Laude</td>
<td>Centerville, Ohio, USA</td>
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<tr>
<td>Justin Gregorio</td>
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<td>Westerville, Ohio, USA</td>
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<tr>
<td>Landon Grim</td>
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<td>Matias Grotewold</td>
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<td>Columbus, Ohio, USA</td>
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<td>Federick Gu</td>
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<td>Gahanna, Ohio, USA</td>
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<td>Cheng Guo</td>
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<tr>
<td>Yashvardhan Gusani</td>
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<td>Vapi, India</td>
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<tr>
<td>Alex Haas</td>
<td>Magna Cum Laude</td>
<td>Liberty Township, Ohio, USA</td>
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<td>Stephen Haffner</td>
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<td>Christopher Hall</td>
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<tr>
<td>Amber Harriger</td>
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<td>West Lafayette, Indiana, USA</td>
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<tr>
<td>Ken Hayes</td>
<td>Cum Laude</td>
<td>Louisville, Kentucky, USA</td>
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<tr>
<td>Yubin He</td>
<td>Summa Cum Laude</td>
<td>Tianjin, China</td>
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<tr>
<td>Kelly Helmreich</td>
<td>Summa Cum Laude with Honors in Engineering</td>
<td>Dublin, Ohio, USA</td>
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<td>Donald Herre</td>
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<td>William Hess</td>
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<td>Andrew Hill</td>
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<td>Thomas Hofferberth</td>
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<td>Eric Hojnacki</td>
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<td>Reece Holl</td>
<td>Magna Cum Laude</td>
<td>Chardon, Ohio, USA</td>
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<td>Seoyeon Hong</td>
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<td>Diwen Hu</td>
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<td>Lingkai Hu</td>
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<tr>
<td>Alexander Humphries</td>
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<td>Lewis Center, Ohio, USA</td>
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<tr>
<td>Adas Iqbal</td>
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<td>Rocky River, Ohio, USA</td>
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<td>Kathryn Jackson</td>
<td>Cum Laude with Honors in Engineering</td>
<td>Chesterland, Ohio, USA</td>
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<td>Michael Johnston</td>
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<td>Reno, Nevada, USA</td>
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<td>Tamera Joseph</td>
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<td>Sandy, Oregan, USA</td>
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<tr>
<td>Seung Jun</td>
<td>Cum Laude with Honors in Engineering</td>
<td>Westerville, Ohio, USA</td>
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<tr>
<td>Pallavi Kalva</td>
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<td>Hilliard, Ohio, USA</td>
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<tr>
<td>Samuel Kampen</td>
<td>Cum Laude</td>
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<tr>
<td>Esko Kautto</td>
<td>Magna Cum Laude</td>
<td>Columbus, Ohio, USA</td>
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<tr>
<td>Broden Kelly</td>
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<td>London, Ohio, USA</td>
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<tr>
<td>Eun Kim</td>
<td></td>
<td>Hudson, Ohio, USA</td>
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<tr>
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<tr>
<td>Evan Kozliner</td>
<td></td>
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</tbody>
</table>
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Xiaochi Weng  
Cum Laude  
Hangzhou, China

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Summa Cum Laude  
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 Huichen Yuan
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 Te Zhang
  Magna Cum Laude
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 Xiangyu Zhang
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 Huizhong Zhao
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 Zefang Zhao
  Beijing, 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

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

ANISH ARORA
Full Professor

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

Department Research Area: NETWORKING and
DISTRIBUTED COMPUTING

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

MIKHAIL BELKIN
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

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

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

BRYAN CHOI  
Assistant Professor
Joint Appointment with Mortiz College of Law
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: GRAPHICS
Interests: Computer Graphics; Video Game Technology; Serious Games; Scientific Visualization; Medical Imaging; Volume Rendering.

JAMES W. DAVIS  
Full Professor
B.S., Computer Science, University of Central Florida, 1994; M.S., Media Laboratory, Massachusetts Institute of Technology, 1996; Ph.D., Media Laboratory, Massachusetts Institute of Technology, 2000.
Department Research Area: ARTIFICIAL INTELLIGENCE
Interests: Computer Vision; Automatic Visual Surveillance and Monitoring; Human Activity Recognition; Video Understanding; and Human-Computer Interaction.
TAMAL 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*

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

Department Research Area: ARTIFICIAL INTELLIGENCE

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

---

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.

---

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.
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.

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

CHUNYI PENG
Assistant Professor

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

Department Research Area: NETWORKING & DISTRIBUTED COMPUTING

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

ALAN RITTER
Assistant Professor

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

Department Research Area: ARTIFICIAL INTELLIGENCE

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

NICOLETA ROMAN
Associate Professor, Lima Campus

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

Department Research Area: ARTIFICIAL INTELLIGENCE

Research interests: Computational Auditory Scene Analysis; Binaural sound localization and separation; Automatic Speech Recognition; Machine Learning.
HAN-WEI SHEN
Full Professor

B.S., Computer Science, National Taiwan University, 1988; M.S., Computer Science, 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.

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.

NASKO ROUNTEV
Full Professor

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

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

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

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; PhD, Computer Science, University of Illinois, Urbana-Champaign, 2001.

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

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

ANASTASIOS SIDIROPOULOS
Assistant Professor

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

Department Research Area: THEORY

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

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.
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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.

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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


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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
**HUAMIN WANG**
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B.Eng., Computer Science and Engineering, Zhejiang University Hangzhou, China, 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: GRAPHICS


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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.

**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.

**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: GRAPHICS

Interests: Computational Geometry; Algorithms; Computational Biology; Computational Topology; Graphics; Modeling; Visualization.

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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.

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WEI XU  
*Assistant Professor*


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

Interests:

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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

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

COURTESY APPOINTMENTS

Ken Huang, Associate Professor, Dept. of Biomedical Informatics

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

FACULTY EMERITUS

YinQian Zhang
Assistant Professor


Department Research Area: Networking & Distributed Computing

Interests: Computer System Security; Cloud and Mobile Security; Privacy

YinQian Zhang
Chairperson of Computer Science & Engineering
Robert M. Critchfield Professor

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

Department Research Area: SYSTEMS, NETWORKING and DISTRIBUTED COMPUTING

Interests: Data Management in Computer; Distributed Systems

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

Clint H. Foulk
Douglas S. Kerr
Timothy Long
William F. Ogden
Rick Parent
Anthony E. Petrarca

Faculty Emeritus

James B. Randels
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).

POST-DOCTORATE RESEARCHERS

Behrooz Omidvar-Tehrani
Aravind Sukumaran Rajam
Arjun Suresh

RESEARCH STAFF

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Xiaoyi Lu - Research Scientist
Agustin Ortiz III - Research Assistant
Jonathan L. Perkins - Systems Administrator
Andrew Plummer - Research Associate
Jeffrey Smith - Research Specialist
Kaitlyn Spehr - Research Assistant
B.S., Biology, Cleveland State University, 1988; Ph.D., Regulatory Biology, Cleveland State University, 1993; B.S., Computer Science and Engineering, The Ohio State University, 2005.

Interests: Using artificial intelligence and other computational data-analysis methods to solve problems in the areas of health care and business; searching for idiopathic disease mechanisms using combined agent-based modeling, literature searches; human pathology laboratory investigation.

Virginia A. Folcik-Nivar
Research Scientist

Khaled Hamidouche
Research Scientist

Master's Degree in Computer Science, High Performance Computing, Paris-Sud University; Research Doctorate, HPC Computing, Universite Paris Sud.

Research Interests: Programming models for hybrid and heterogeneous systems, MVAPICH

Jihun Hamm
Research Scientist

Rubao Li
Research Scientist

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

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

Rubao Li
Research Scientist

Hari Subramoni
Research Scientist


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

Xiaoyi Lu
Research Scientist


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

Hari Subramoni
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.
GOJKO BABCIC  
Senior Lecturer

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.

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B.A., Computer Science and Mathematics, Hiram College, 2006; Ph.D., Computer Science and Engineering, The Ohio State University, 2012.

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Laurea in Scienze Dell' Informazione, Universita' Degli Studi di Milano, Italy, 1986; M.S., Computer & Information Science, The Ohio State University, 1989; Ph.D., Computer & Information Science, The Ohio State University, 1997.

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B.S., Computer Science and Engineering (with distinction), The Ohio State University, 2007; M.S., Computer Science and Engineering, The Ohio State University, 2012.

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B.S., Computer and Information Science, The Ohio State University, 1979; M.S., Computer Science and Engineering, The Ohio State University, 1981.

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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.

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B.S., Computer Science, Kent State University, 2005; M.S., Computer Science, Kent State University, 2008; Ph.D., Computer Science and Engineering, The Ohio State University, 2015.

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Lecturer

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

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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.

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

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

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Aaron Jenkins - Systems Manager
Robert Joseph - Systems Developer / Engineer
Todd Lucal - Systems Manager
Shaun Rowland - Senior Systems Developer / Engineer
Ted Welch - Systems Manager