THE OHIO STATE UNIVERSITY

COLLEGE OF ENGINEERING

Department of Computer Science and Engineering

2016-2017 Annual Report

CONTENTS

Department of Computer Science and Engineering
The Ohio State University
2015 Neil Avenue 395 Dreese Labs
Columbus, Ohio 43210
cse.osu.edu/

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.

NEWS & HIGHLIGHTS

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 chronical 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 sophmores.

"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 The Ohio State Univeristy College of Engineering recognized Dr. Panda with the Innovator Award and in 2015 The Ohio State University named him a Distinguished Scholar.

Pictured left to right
Back Row: Sourav Chakraborty, Dr. Hari Subramoni, Akshay Venkatesh, Jie Zhang, Mingzhe Li, Jeff Smith,
Ammar Awan, Wasiur Rahman, Mamzi Bayatpour

Front Row: Dipti Shankar, Shashank Gugnani, Jahanzeb Hashmi, Dr. Khaled Hamidouche, Prof. D. K. Panda, Dr. Xiaoyi Lu, Ching-Hsiang Chu, Nusrat Islam

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.

Pictured from left to right: Chunyi Peng (CSE faculty, OSU), Charlie Hu (MobiCom'16 Program co-Chair), Karthik Sundaresan (MobiCom'16 Program co-Chair), Zengwen Yuan (PhD student, UCLA), Yuanjie Li (PhD student, UCLA), Haotian Deng (CSE PhD Student, OSU).

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.

Pictured from left to right: Prof. Jen-Ping Chen, Mechanical Engineering Department; Prof. Han-Wei Shen, CSE; Jimmy Chun,-Ming Chen, former CSE Ph.D. now at Google; Soumya Dutta, Ph.D. CSE student; Jim Ahrens, paper chair of IEEE SciVis 2016

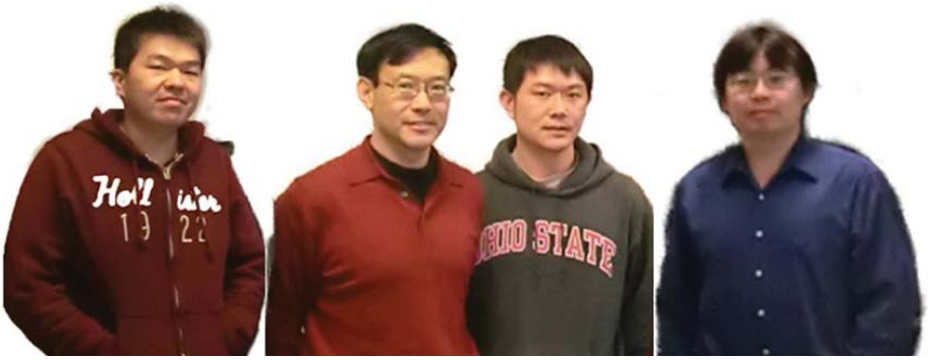
Research Innovation Drives an Industry-Leading Computational Geometry Engine in High Speed

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 NVDIA 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.



Pictured from left to right: Yin Huai, Xiaodong Zhang, Kaibo Wang and Rubao Lee

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 Stoney 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 Univeristy. 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.

Dept. of Computer Science & Engineering
21st Annual Awards Banquet

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
Joshual 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 Sidiropolous

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
05/15/2106 – 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

PI: White
Co-PIs: Fosler- Lussier, Danforth, Schuler
$450,000

Raghu Machiraju

Agency for Healthcare Res & Quality
Supporting systematic review production with article similarity network visualization
09/30/2016- 09/27/2017
PI: Yen
Co-PIs: Machiraju, Ritter
$100,000

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: Lu, Subramoni
$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: Hamidouche, Subramoni, Tomko
$1,171,893

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 infiniBand 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)
08/15/20176- 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

GUEST SPEAKER AND DISTINGUISHED GUEST LECTURERS

Raef Bassily University of California, San Diego
Learning from Private Data without Learning Private Data

Leilani Battle Massachusetts Institute of Technology
Behavior-Driven Optimizations for Big Data Exploration

Abhishenk Chandra University of Minnesota
Computing with Geo-distributed Data

Ang Chen University of Pennsylvania
Secure Diagnostics and Forensics with Network Provenance

Jian Chen University of Maryland, Baltimore County
Interactive Visual Computing for Knowledge Discovery in Science, Engineering, and Biology

Manaal Faruqui Research Scientist at Google Inc.
Inducing Morpho-syntactic Lexicons and Morphological Inflections

Dan Garrette Research Scientist at Google, NYC
Learning from Weak Supervision: Combinatory Categorial Grammars and Historical Document Transcription

James Hoe Carnegie Mellon University
CoRAM++: Data-Structure-Specific Memory Interfaces for FPGA Computing

Meng Jiang University of Illinois at Urbana-Champaign
Data-Driven Behavioral Analytics with Networks

Samory Kpotufe Princeton University
Self-tuning in nonparametric regression

Anasatsios Kyrillidis University of Texas at Austin
Rethinking Algoriths in Data Science: Scaling up Optimization Using Non-Convexity, Provably

Ashwin Lall Denison Univeristy
The k-Regret Operator

Bo Li University of Michigan
Secure Learning in Adversarial Environments

Jiwei Li Standford University
Teaching a Machine to Converse

Xiaojing Liao Georgia Tech
Evaluating Security Risks and Cyber Intelligence Through Semantic-Aware Inspextion Techniques

Zhinqian Lin University of Texas at Dallas
Identifying Security Vulnerabilities in Remote Services via Automated Analysis of Mobile Apps

Kangjie Lu Georgia Institute of Technology
Defeating Advanced Memory-Error Exploits by Preventing Information Leaks

Mehrdad Mahdavi Georgia Institute of Technology
Defeating Advanced Memory-Error Exploits by Preventing Information Leaks

Dr. Patrick McDaniel Penn State University
Tracing the Arc of Smartphone Application Security

Dr. Ray Mooney University of Texas, Austin
Generating Natural-Language Video Descriptions using LSTM Recurrent Neural Networks

David Naylor Carnegie Meloon University
Privacy in the Internet (Without Giving up Everything Else)

Mitsunori Ogihara University of Miami
Exploring Digital Humanities

Reza Shokri Cornell Tech
Data Privacy: How to Survive Inference Avalanche

Philip Thomas Carnegie Mellon University
Safe Machine Learning

Zhaoran Wang Princeton Wang
Taming Nonconvexity with Data

Venu Satuluri Twitter
Machine Learning for Recommender Systems at Twitter

Zheng Yang Tsinghua Univeristy
Enabling Sensorless Sensing with WiFi Radar

Zhou Yu Carnegie Mellon Univeristy
Situated Intelligent Interactive Systems

STUDENTS

Ten Year Statistical History - Teaching Overview

	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013	AU 2014	AU 2015	AU 2016
Number of Faculty	33	35	35	35	36	36	34	38	40	40	40
Course Enrollment/ Autumn Qtr.	3,238	3,386	3,702	3,943	4,075	4,609	5,737	6,508	6,932	7,626	7,650
	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14	14-15	15-16	16-17
Students Taught	10,641	11,185	12,209	12,689	13,744	14,523	12,457	14,463	15,484	16,697	17,037

*****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.

	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013	AU 2014	AU 2015	AU 2016
Graduate Students Enrolled	184	235	239	303	304	339	305	327	347	329	298
	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14	14-15	15-16	16-17
Graduate Student Applications	619	705	677	817	1,031	1,190	1,196	1,264	1,218	1,205	1,385
Graduate Students Supported	135	135	132	182	218	209	222	201	231	203	245
M.S. Degrees Awarded	33	37	39	64	40	37	86	93	111	94	75
Ph.D. Degrees Awarded	17	32	26	19	20	14	19	26	28	32	31
Ph.D. Degrees (cumulative)	378	410	436	455	475	489	508	534	562	594	625

PhD Degrees Granted

Name — Post Graduation Destination
Advisor — Hometown
Vita
Dissertation Title

Dr. Joseph Anderson — Assistant Professor of Computer Science at Salisbury University
Dr. Anastasios Sidiropoulos — Columbus, Ohio, USA
B.S., Saint Vincent College; M.S., The Ohio State University
Geometric Methods for Robust Data Analysis in High Dimension

Dr. Anys Bacha — Software Engineer at Hewlett Packard, Sacramento, California
Dr. Mircea-Radu Teodorescu — Dublin, Ohio
B.S.; M.S. Western Michigan University; M.S., The Ohio State University
Harnessing on-chip error correction for energy efficieny and security

Dr. Ayan Biswas — Post Doc Researcher, Los Alamos National Labs
Dr. Han-Wei Shen — Mankundu India
B. S. ptr.Sci.Eng., Jadavpur University; M.S., The Ohio State University
Uncertainty and Error Analysis in the Visualization of Multidimensional and Ensemble Data Sets

Dr. Swarnendu Biswas — Post-Doc Fellow, Institute of Computational Engineering & Sciences, The University of Texas at Austin
Dr. Michael Bond — Durgapur, India
B. Engr., National Institutes of Technology India; M.S., Indian National Institute of Technology Kharagpur; M.S. The Ohio State University
Practical support for strong serializability-based memory consistency

Dr. Di Cao — Graduate Teaching Assistant, The Ohio State University
Dr. Richard Parent — Columbus, Ohio
B.S., Fudan University; M.S., The Ohio State University
Physically Based Simulation of Various Fabrics eith Multi-Level Modeling

Dr. Man Cao — Software Engineer at Google, Sunnyvale California
Dr. Michael Bond — Jinan, China
Bachelor's, Zhejiang University; M.S., The Ohio State University
Efficient, Practical Dynamic Program Analyses for Concurrency Correctness

Dr. Chun-Ming Chen — Software Engineer Google
Dr. Han-Wei Shen — Taichung City, Taiwan
B.S., National Chiao Tung University; M.S., University of Southern California
Data summarization for large time-varying flow visualization and analysis

Dr. Jitong Chen — Research Scientist at Baidu Silicon Valley AI Lab
Dr. Deliang Wang — Xianju, Zhejiang, China
Bachelor's, Northeaster University; M.S., The Ohio State University
On Generalization of Supervised Speech Separation

Dr. Hao Ding — Sr. Statistical Analyst, DGTC, Bentonville, AR
Dr. Raghu Machiraju — Columbus, OH
Bachelor's, Tongji Univeristy
Visualization and Integrative analysis of cancer multiomics data

Dr. Dustin Hoffman — Odenton, MD
Dr. Bruce Weide — Columbus, Ohio
B.S., M.S., The Ohio State University
Techniques for the specification and verification of enterprise applications

Dr. Dachuan Huang — Software Engineer at Snap Inc., Columbus, Ohio
Dr. Feng Qin — 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
Dr. DK Panda — Dhaka, Bangladesh
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
Dr. Mikhail Belkin — Fuyang, China
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
Dr. Dong Xuan — Columbus, OH
B.Engr., Master's, Tongji Universty
A Holistic Study on Electronic and Visual Signal Integration for Efficient Surveillance

Dr. Qihang Li — Conversant Media
Dr. Raghu Machiraju — Lexington, KY
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
Dr. Gagan Agrawal — Columbus, OH
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
Dr. Han-Wei Shen — Yantai, China
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
Dr. Han-Wei Shen — Luoyang, China
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
Dr. Mircea-Radu Teodorescu — Wuhan,China
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
Dr. DK Panda — Hangzhou, China
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
Dr. P. Sadayappan — Lalitpur, Nepal
B.A., Williams College; M.S. The Ohio State University
Locality Optimizations for Regular and Irregular Applications

Dr. Aritra Sengupta — Samsung Research America
Dr. Michael Bond — Kolkata, India
Bachelor's, Vellor 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
Dr. Roger Crawfis — Taicang, Suzhou, China
B.S., Univeristy of Electronic Science and Technology of China
Procedural Content Generation for Computer Games

Dr. Chaitanya Shivade — Research Staff Member at IBM, San Francisco, California
Dr. Eric Fosler-Lussier — 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
Dr. Han-Wei Shen — Columbus, OH
B.Engr., Tongi University; M.S., The Ohio State University
Interactive Visual Clutter Management in Scientific Visualization

Dr. Akshay Venkatesh — Software Engineer at NVIDIA, Santa Clara, CA
Dr. DK Panda — 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
Dr. Huamin Wang — 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
Dr. Dong Xuan — Columbus, OH

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

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

Dr. Yuan Yuan — Google, Inc
Dr. Xiaodong Zhang — 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
Dr. Michael Bond — 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

Name
Advisor
Home
Vita

Bhavya Arora
DK Panda
Dehradun, Uttarakhand, India
B.Tech., Uttarakhand Technical Institute

Albert Mathews Augustine
DK Panda
Mumbai, India
B. Engr., University of Mumbai

Wenlei Bao
P. Sadayaooan
Shijiazhuang, China
Bachelor's, M.S. Harbin Institute of Technology; M.S. The Ohio State University

Anmol Bhatia
Anish Arora
Nilokheri, India
B.Tech., National Institue of Technology, India

Fang Cao
Spyridon Blanas
Beijing, China
B.Engr., Beijing Institute of Technology

Man Cao
Michael Bond
Jinan, China
Bachelor's, Zhejiang University

Keerthi Chadalavada
Michael Bond
Vijayawada, Andhra Pradesh, India
B. Engr., Birla Institute of Technology and Science

Ankur Chaudhry
P. Sadayappan
Moradabad, India
B. Tech., SASTRA University

Linhu Chen
Han-Wei Shen
Columbus, Ohio
B.S., Shanghai Jiao Tong University; Master's, Fundan University

Young Suk Cho
Eric Fosler-Lussier
Seoul, Korea
B.S., Handong Global Univeristy; M.S., Georgia Institute of Technology

Bratati Das
Ten-Hwang Lai
Kolkata, India

Meghan Day
Eric Fosler-Lussier
Columbus, OH
B. A., The Ohio State University

Yashas Devaraju
Arnab Nandi
Bangalore, India
B.Engr., M.S., Birla Institute of Technology and Science

Soumya Dutta
Han-Wei Shen
Kolkata, India
Bachelor's. Maulana Abil Kala, Azad University of Technology

Roee Edenstein
Gagan Agrawal
Columbus, Ohio
B.S., The Open University of Israel

Esteban Escobar Alfaro
Deliang Wang
Ban Chang, China
B.S. Cptr.Sci.Eng., The Ohio State University

Soren Alok Raj Goyal
Chunyo Peng
New Belhi, India
M.S., Indian Institute of Technology Bombay

Chaoqun Guo
Alan Ritter
Zibo, China
B.S., China University of Mining and Technology

Saurabh Gupta
Han-Wei Shen
Jaipur, India
B.Tech., Vellore Institute of Technology

Songyuan Hai
Ness Shroff
Zhengzhou, China
B.S. Cptr.Sci.Eng., Central South University

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
LSingapore, Singapore
B. Engr., Nanyang Technological Univeristy, Singapore

Lilong Jiang
Arnab Nandi
Laizhou, China
Bachelor's, Northestern 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 Univeristy

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
Bangalore, India
B. Engr., Viveswaraiah Technological Univeristy

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

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 Univerisity, 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., Beihang University

Undergraduate Program

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.

	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013	AU 2014	AU 2015	AU 2016
Undergrad Students Enrolled	795	817	877	871	971	1,102	1,287	1,413	1,498	1,617	1,764
	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14	14-15	15-16	16-17
B.A., B.S. Degrees Awarded	140	142	138	127	152	213	229	204	244	292	333

*****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

★ **Name, Degree**
Honor(s) Earned
Home

★ **Thomas Antenucci, BS**
Mason, Ohio, USA

★ **Dong Jo Ban, BS**
Seoul, South Korea

★ **Daniele Bellutta, BS**
Summa Cum Laude, with Honors in Arts & Sciences
La Crescenta, California, USA

★ **Jillian Bendt, BS**
Magna Cum Laude, with Honors in Arts & Sciences
Findlay, Ohio, USA

★ **Joshua Brown, BS**
Upper Arlington, Ohio, USA

★ **Max Buck, BS**
Cleveland, Ohio, USA

★ **Mark Caldwell, BS**
North Canton, Ohio, USA

★ **Taylor Case, BS**
Powell, Ohio, USA

★ **Crystal Ceballos, BS**
Canfield, Ohio, USA

★ **Joseph Chagnon, BS**
Magna Cum Laude with Honors in Arts & Sciences
Columbus, Ohio, USA

★ **Nicholas Chehade, BS**
Magna Cum Laude with Honors in Arts & Sciences
Solon, Ohio, USA

★ **Floyd Claprood, BS**
Dublin, Ohio, USA

★ **Daniel Coyle, BA**
Maumee, Ohio, USA

★ **Matthew Cramblett, BS**
London, Ohio, USA

★ **Nicholas Curto, BS**
Summa Cum Laude
Findlay, Ohio, USA

★ **Bowen Dai, BS**
Hangzhou, China

★ **Tyler Degen, BS**
Williamsville, NY, USA

★ **Derrick Dent, BS**
Cleveland, Ohio, USA

★ **Colin Dolan, BS**
Galloway, Ohio, USA

★ **Ian Frankenburg, BA**
Cum Laude, with Honors in Arts & Sciences
Findlay, Ohio, USA

★ **Jessica Gillespie, BS**
Columbus, Ohio, USA

★ **Kyle Gordon, BS**
West Chester, Ohio, USA

★ **Daniel Gratz, BS**
Magna Cum Laude
Columbus, Ohio, USA

★ **Julie Green, BS**
Liberty Twp, Ohio, USA

★ **Wen Gu, BS**
Shanghai, China

★ **Jacob Haynes, BS**
Cum Laude
Cincinnati, Ohio, USA

★ **Xin Huang, BS**
Summa Cum Laude,
Columbus, Ohio, USA

★ **Christina Hummel, BS**
Magna Cum Laude
Midlothian, Virgina, USA

★ **Aaron Jenkins, BS**
Columbus, Ohio, USA

★ **Kyle Justice, BS**
Grove City, Ohio, USA

★ **Joseph Kay, BS**
Strongsville, Ohio, USA

★ **Adam Kimble, BS**
Cum Laude
Bryan, Ohio, USA

★ **Thomas Leung, BS**
Strongsville, Ohio, USA

★ **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 Overfirld, 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**
Washinton 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**
Summa Cum Laude
Worthington, 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

★ **Abigal 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**
Cume 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 Duello**
Hamilton, Ohio, USA

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

★ **Hani Ewais**
Mentor, Ohio, USA

★ **Samuel Farren**
Columbus, Ohio, USA

★ **Dalton Flanagan**
Cum Laude with Honors in Engineering
Nashport, Ohio, USA

★ **Bryon Foltz**
Johnstown, Ohio, USA

★ **Reid Fu**
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★ **Evan Geisler**
Fairfield, Ohio, USA

★ **Trenton Gibson**
Columbus, Ohio, USA

★ **Glen Giffey**
Dublin, Ohio, USA

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

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

★ **Skylor Gomes**
Chesterland, Ohio, USA

★ **Ziming Gong**
Nantong, China

★ **William Greer**
Summa Cum Laude
Centerville, Ohio, USA

★ **Justin Gregorio**
Westerville, Ohio, USA

★ **Landon Grim**
Cum Laude
New Bavaria, Ohio, USA

★ **Matias Grotewold**
Cum Laude
Columbus, Ohio, USA

★ **Federick Gu**
Cum Laude
Gahanna, Ohio, USA

★ **Cheng Guo**
Columbus, Ohio, USA

★ **Yashvardhan Gusani**
Vapi, India

★ **Alex Haas**
Magna Cum Laude
Liberty Township, Ohio, USA

★ **Stephen Haffner**
Cincinnati, Ohio, USA

★ **Christopher Hall**
Midland, Ohio, USA

★ **Amber Harriger**
West Lafayette, Indiana, USA

★ **Ken Hayes**
Cum Laude
Louisville, Kentucky, USA

★ **Yubin He**
Summa Cum Laude
Tianjin, China

★ **Kelly Helmreich**
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★ **Donald Herre**
Dublin, Ohio, USA

★ **William Hess**
Cum Laude
Columbus, Ohio, USA

★ **Andrew Hill**
McKinney, Texas, USA

★ **Thomas Hofferberth**
Liberty Township, Ohio, USA

★ **Eric Hojnacki**
Sylvania, Ohio, USA

★ **Reece Holl**
Magna Cum Laude
Chardon, Ohio, USA

★ **Seoyeon Hong**
Columbus, Ohio, USA

★ **Diwen Hu**
Columbus, Ohio, USA

★ **Lingkai Hu**
Cixi, China

★ **Alexander Humphries**
Lewis Center, Ohio, USA

★ **Adas Iqbal**
Rocky River, Ohio, USA

★ **Kathryn Jackson**
Cum Laude with Honors in Engineering
Chesterland, Ohio, USA

★ **Michael Johnston**
Reno, Nevada, USA

★ **Tamera Joseph**
Sandy, Oregan, USA

★ **Seung Jun**
Cum Laude with Honors in Engineering
Westerville, Ohio, USA

★ **Pallavi Kalva**
Hilliard, Ohio, USA

★ **Samuel Kampen**
Cum Laude
Columbus, Ohio, USA

★ **Esko Kautto**
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Columbus, Ohio, USA

★ **Broden Kelly**
London, Ohio, USA

★ **Eun Kim**
Hudson, Ohio, USA

★ **Richard Kochert**
Cum Laude with Honors in Engineering
Moreland Hills, Ohio, USA

★ **Evan Kozliner**
Columbus, Ohio, USA

★ **Nathan Krebs**
Chardon, Ohio, USA

★ **Max Kross**
Columbus, Ohio, USA

★ **Tyler Kucera**
Cum Laude
Paonesville, Ohio, USA

★ **Tyler Lacks**
Columbus, Ohio, USA

★ **Matthew LeDonne**
Cum Laude
Cuyahoga Falls, Ohio, USA

★ **Andrew Lee**
Painesville, Ohio, USA

★ **Hong Yun Lee**
Choong Book, South Korea

★ **Christopher Leight**
Strongdville, Ohio, USA

★ **Nicholas Leight**
Magna Cum Laude
Strongsville, Ohio, USA

★ **Tyler Li**
Cum Laude
Mason, Ohio, USA

★ **Winnie Li**
Dublin, Ohio, USA

★ **Jordan Linville**
Centerville, Ohio, USA

★ **Yang Liu**
Wuhan, Hubei, China

★ **Yuzhen Liu**
Zibo, China

★ **Cameron Lloyd**
Pickerington, Ohio, USA

★ **Cameron Long**
Dayton, Ohio, USA

★ **Jackson Luken**
Cum Laude with Honors in Engineering
Columbus, Ohio, USA

★ **Albert Maah**
Liberty Township, Ohio, USA

★ **Samuel Maddox**
Columbus, Ohio, USA

★ **Dalton Mankin**
Hilliard, Ohio, USA

★ **Jack Manzler**
Mariemont, Ohio, USA

★ **Oliver Mason**
Chagrin Falls Ohio, USA

★ **Logan McCamish**
Dublin, Ohio, USA

★ **Joshua McCord**
Pataskala, Ohio, USA

★ **Cameron McCuen**
Cum Laude
Powell, Ohio, USA

★ **Christopher McManamon**
Lewis Center, Ohio, USA

★ **Andrew McSurley**
Pickerington, Ohio, USA

★ **Kathryn Mendiola**
Hudson, Ohio, USA

★ **Matthew Migdal**
Bellmore, New York, USA

★ **Daniel Miller**
Cincinnati, Ohio, USA

★ **Steven Miller**
Cincinnati, Ohio, USA

★ **Claudia Moeller**
East Aurora, New York, USA

★ **William Montmorency**
Riverwoods, Illinois, USA

★ **Brandon Moore**
Columbus, Ohio, USA

★ **Tyler Moore**
Powell, Ohio, USA

★ **Stephanie Muhammad**
Columbus, Ohio, USA

★ **Chenfeng Nie**
Columbus, Ohio, USA

★ **Joshua Nieman**
Hamilton, Ohio, USA

★ **Ryan Niemocienski**
Cum Laude with Honors in Engineering
Columbus, Ohio, USA

★ **William Osler**
Maineville, Ohio, USA

★ **Robert Otting**
Cum Laude
Gahanna, Ohio, USA

★ **Austin Palmer**
Leesburg, Ohio, USA

★ **Joseph Pappas**
Avon Lake, Ohio, USA

★ **Logan Patino Middaugh**
Cum Laude
Lancaster, Ohio, USA

★ **Frank Patrizio**
Piqua, Ohio, USA

★ **Kevin Payravi**
Columbus, Ohio, USA

★ **Thomas Pendley**
Galena, Ohio, USA

★ **Andrew Petrilla**
Magna Cum Laude with Honors in Engineering
Wadsworth, Ohio, USA

★ **Maxwell Pettit**
Magna Cum Laude
Powell, Ohio, USA

★ **Wesley Pettie**
Magna Cum Laude
Dublin, Ohio, USA

★ **Zachary Peugh**
Cum Laude
Troy, Ohio, USA

★ **Christopher Phillips**
Broadview Heights, Ohio, USA

★ **Cailin Pitt**
Pataskala, Ohio, USA

★ **Derek Plautz**
Cum Laude
Cranberry Township, Pennsylvania, USA

★ **Samuel Ploucha**
New Richmond, Ohio, USA

★ **Brandon Polly**
Stow, Ohio, USA

★ **Kyle Powers**
Magna Cum Laude
Columbus, Ohio, USA

★ **Eric Purvis**
Troy, Ohio, USA

★ **Shengjie Quan**
Summa Cum Laude with Honors in Enginnering
Shanghai, China

★ **Nicholas Re**
Cum Laude
North Olmsted, Ohio, USA

★ **Bobby Reynolds**
Cum Laude
Johnson City, Tennessee, USA

★ **Chen Rong**
Columbus, Ohio, USA

★ **Stephen Ross**
Magna Cum Laude
Saulsville, West Virgina, USA

★ **Oscar Rubio**
Magna Cum Laude
Columbus, Ohio, USA

★ **Nolan Rudolph**
Pickerington, Ohio, USA

★ **Ilifilza Rusli**
Columbus, Ohio, USA

★ **Sina Sabet**
Cum Laude
Mason, Ohio, USA

★ **Jacob Sage**
Westerville, Ohio, USA

★ **Paul Sandels**
Copley, Ohio, USA

★ **Monish Sangtani**
Magna Cum Laude
Columbus, Ohio, USA

★ **Rohit Sathyanarayana**
Cum Laude
Columbus, Ohio, USA

★ **Kenneth Schmitt**
Fairfax, Ohio, USA

★ **Chad Schnipke**
Ottawa, Ohio, USA

★ **Gregory Schoen**
Plano, Texas, USA

★ **Zachary Schroeder**
Cum Laude
Columbus, Ohio, USA

★ **Tyler Schultz**
Aurora, Ohio, USA

★ **Michael Schulz**
Summa Cum Laude
Winchester, Virgina, USA

★ **Jacob Seile**
Mason, Ohio, USA

★ **Samuel Shutt**
Cum Laude
Lima, Ohio, USA

★ **Sayeed Siddigui**
Cum Laude
Dayton, Ohio, USA

★ **Ericpreet Singh**
West Chester, Ohio, USA

★ **Sukhjit Singh**
Grove City, Ohio, USA

★ **Bernard Skubak**
Westerville, Ohio, USA

★ **Will Sloan**
Columbus, Ohio, USA

★ **Jacob Smiddy**
Springfield, Ohio, USA

★ **Zane Smith**
Cum Laude
Norwalk, Ohio, USA

★ **Griffin Solimini**
Summa Cum Laude with Honors in Engineering
Mason, Ohio, USA

★ **David Soller**
Columbus, Ohio, USA

★ **Eric Soppi**
Cum Laude
Uniontown, Ohio, USA

★ **Kevin Spiers**
Columbus, Ohio, USA

★ **Benjamin Stammen**
Marysville, Ohio, USA

★ **Livia Stanley**
Summa Cum Laude
Pickerington, Ohio, USA

★ **W. Dustin Stanley**
Westerville, Ohio, USA

★ **Luke Stegman**
Cincinnati, Ohio, USA

★ **Daniel Stelson**
Cum Laude
Kirtland, Ohio, USA

★ **Gweneveir Stevens**
Columbus, Ohio, USA

★ **Joseph Stone**
Uniontown, Ohio, USA

★ **Tyler Stone**
Delaware, Ohio, USA

★ **Simon Stuard**
Cincinnati, Ohio, USA

★ **Connor Swick**
Plain City, Ohio, USA

★ **Caitlin Talbot**
Wickliffe, Ohio, USA

★ **Branden Tenbrink**
Columbus, Ohio, USA

★ **Anthony Tenuta**
Glen Ellyn, Illinois, USA

★ **Parth Thaker**
Lewis Center, Ohio, USA

★ **Alex Thomas**
Cum Laude
Hannibal, Ohio, USA

★ **Damonique Thomas**
Columbus, Ohio, USA

★ **Cyriac Thundathil**
Columbus, Ohio, USA

★ **Cameron Toben**
Sioux Falls, South Dakota, USA

★ **Brendan Todahl**
Cum Laude
West Chester, Ohio, USA

★ **Jacob Turner**
Magna Cum Laude
Pittsford, New York, USA

★ **Adam Tyler**
Massillon, Ohio, USA

★ **Caleb Underwood**
Grove City, Ohio, USA

★ **Daniel Valentini**
Cincinnati, Ohio, USA

★ **William Van Der Laar**
Helena, Ohio, USA

★ **Joseph Van Gundy**
Grove City, Ohio, USA

★ **Tadas Varaneckas**
Riverside, Illinois, USA

★ **William Varcho**
Magna Cum Laude
Willoughby, Ohio, USA

★ **Alexander Vavra**
Magna Cum Laude
Kent, Ohio, USA

★ **Ryan Wachowski**
Mount Orab, Ohio, USA

★ **Carlos Waibl**
Worthington, Ohio, USA

★ **Kacper Wardega**
Cum Laude with Honors in Engineering
Brecksville, Ohio, USA

★ **Scott Weddendorf**
Columbus, Ohio, USA

★ **Xiaochi Weng**
Cum Laude
Hangzhou, China

★ **Xu Weng**
Cum Laude with Honors in Engineering
Lewis Center, Ohio, USA

★ **Kristopher Wenger**
Magna Cum Laude
Worthington, Ohio, USA

★ **Kyle Williams**
Cum Laude
Winchester, Virginia, USA

★ **Logan Wilson**
Magna Cum Laude
Chillicothe, Ohio, USA

★ **Alexander Winchell**
Magna Cum Laude with Honots in Engineering
Cincinnati, Ohio, USA

★ **Thomas Winget**
Mountain View, California, USA

★ **Adam Wolfe**
Kettering, Ohio, USA

★ **Ka-wai Wong**
Westerville, Ohio, USA

★ **Connor Wood**
Magna Cum Laude
Mansfield, Ohio, USA

★ **Alec Workman**
Cum Laude
Mount Vernon, Ohio, USA

★ **Kaye Wrobleski**
Mansfield, Ohio, USA

★ **Jordan Wurth**
Lima, Ohio, USA

★ **Yani Xie**
Magna Cum Laude
Shenzhen, China

★ **Xiakan Xu**
Cum Laude
Hangzhou, Linping, China

★ **Yilang Xuan**
Columbus, Ohio, USA

★ **Xuanxuan Xue**
Zhengzhou, China

★ **Xiaochi Weng**
Cum Laude
Hangzhou, China

★ **Yihan Yang**
Summa Cum Laude
Taizhou, China

★ **Zhichao Yang**
Magna Cum Laude
Wuhan, Hubei, China

★ **Zhiyue Yang**
Magna Cum Laude
Zhengzhou, China

★ **Seth Yoder**
Cum Laude
Ashland, Ohio, USA

★ **Clinton Yoos**
North Canton, Ohio, USA

★ **Garrett Young**
Flower Mound, Texas, USA

★ **Eric Yu**
Cum Laude
Highland Heights, Ohio, USA

★ **Huichen Yuan**
Columbus, Ohio, USA

★ **Lana Yusuf**
Cum Laude
Pickerington, Ohio, USA

★ **Alan Zeigler**
Powell, Ohio, USA

★ **Tyler Zeller**
Magna Cum Laude
Mt. Vernon, Ohio, USA

★ **Te Zhang**
Magna Cum Laude
Jinan, China

★ **Xiangyu Zhang**
Magna Cum Laude
Nanjing, China

★ **Huizhong Zhao**
Dalian, China

★ **Zefang Zhao**
Beijing, China

FACULTY, SCIENTISTS & STAFF

Tenured & Tenure Track Faculty

Gagan Agrawal

Full Professor

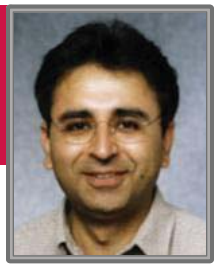
B.S., Computer Science & Engineering, Indian Institute of Technology, Kanpur, India, 1991; M.S., Computer Science, University of Maryland, College Park, Maryland, 1994; Ph.D., Computer Science, University of Maryland, College Park, Maryland, 1996

Department Research Area: SYSTEMS

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

Anish Arora

Full Professor



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

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

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

Mikhail Belkin

Full Professor

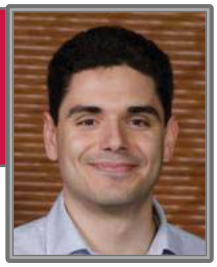
Hon.B.Sc. with High Distinction, Mathematics, University of Toronto, 1995; M.S., Mathematics, University of Chicago, 1997; Ph.D., Mathematics, University of Chicago, 2003.

Department Research Area: ARTIFICIAL INTELLIGENCE

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

Spyros Blanas

Assistant Professor



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

Department Research Area: SYSTEMS

Interests: Database Management Systems.

Michael Bond

Associate Professor

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

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

Interests: Programming Languages; Software Systems; Runtime Systems; Program Analysis,; Parallelism; Compilers; Security

Bryan Choi

Assistant Professor
Joint Appointment with Mortiz College of Law

B.A., Computer Science, Harvard College, 2003; J.D., Havard Law School, 2007.

Department Research Area: PRIVACY

Interests: Property, Intellectual Property (Patent, Copyright, Trademark), Internet Law, Privacy, Torts

Roger Crawfis

Associate Professor

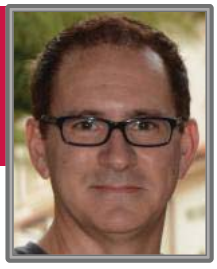
B.S., Computer Science and Applied Mathematics, Purdue University, 1984; M.S., Computer Science, University of California, Davis, 1989; Ph.D., Computer Science, University of California, Davis, 1995.

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.

R. Facundo Mémoli

Associate Professor

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

Departmental Research areas: THEORY

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

Arnab Nandi

Associate Professor

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

Department Research Area: SYSTEMS

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

DK Panda

Full Professor

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

Department Research Area: SYSTEMS

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

Srinivasan Parthasarathy

Full Professor

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

Department Research Area: SYSTEMS

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

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.

Feng Qin

Associate Professor

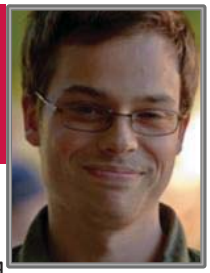
B.E., University of Science and Technology of China, 1998; M.E., Chinese Academy of Sciences, 2001; Ph.D., the University of Illinois, Urbana-Champaign, 2006.

Department Research Area: SYSTEMS

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

Alan Ritter

Assistant Professor



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

Department Research Area: ARTIFICIAL INTELLIGENCE

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

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.

Nasko Rountev

Full Professor

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

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

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

P. (Saday) Sadayappan

Full Professor

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

Department Research Area: SYSTEMS

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

Han-Wei Shen

Full Professor

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

Department Research Area: GRAPHICS

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

Ness B. Shroff

Ohio Eminent Scholar of Networking and Communications Endowed Chair Professor

B.S., Univeristy of Southern California, 1988; M.S.E., Univeristy 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; Netowrk Design and Dimensioning; Network Security; Information Theoretic Security; Queueing Theory; Dynamic Control; Network Coding; Scaling Laws; Distributed Algorithms; Complexity and Approximability; Game Theory; Pricing

Anastasios Sidiropoulos

Assistant Professor

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

Department Research Area: THEORY

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

Prasun Sinha

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.

Paul A.G. Sivilotti

Associate Professor

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

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

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

Neelam Soundarajan

Associate Professor

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

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

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

Kannan Srinivasan

Associate Professor

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

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

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

Christopher Stewart

Associate Professor

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

Department Research Area: SYSTEMS

Interests: Sustainable computing; Internet services; Data-intensive services; Distributed Systems; Performance Modeling..

Huan Sun

Assistant Professor

B.S., Electronic Engineering and Information Science, University of Science and Technology of China, 2010; Ph.D., Computer Science, University of California, Santa Barbara, 2015

Department Research Area: DATA MINING

Interests: Data Mining and Machine Learning with emphasis on text mining and understanding, network analysis, and human behavior understanding.

Kenneth J. Supowit

Associate Professor

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

Department Research Area: THEORY

Interests: Combinational Algorithms

Radu Teodorescu

Associate Professor

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

Department Research Area: SYSTEMS

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

DeLiang (Leon) Wang

Full Professor

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

Department Research Area: ARTIFICIAL INTELLIGENCE

Interests: Machine Perception; Neurodynamics.

Huamin Wang

Associate Professor

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

Department Research Area: GRAPHICS

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

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

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

Department Research Area: GRAPHICS

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

Rephael Wenger

Associate Professor and Associate Chairperson

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

Department Research Area: GRAPHICS

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

Wei Xu

Assistant Professor

B.S. and M.S., Computer Science, Tsinghua University, 2004/2007; Ph.D. Computer Science, New York University, 2017.

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

Interests:

Dong Xuan

Full Professor

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

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

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

Xiaodong Zhang

Chairperson of Computer Science & Engineering
Robert M. Critchfield Professor

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

Department Research Area: SYSTEMS, NETWORKING and DISTRIBUTED COMPUTING

Interests: Data Management in Computer; Distributed Systems

Yinqian Zhang

Assistant Professor

B.Eng., Information Security, Shanghai Jiao Tong University, 2006; M.Eng. Communication and Information Systems, Shanghai Jiao Tong University, 2009; Ph.D., Computer Science, University of North Carolina at Chapel Hill, 2014.

Department Research Area: Networking & Distributed Computing

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

Courtsey 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

Emeritus Appointments

Professor Emeritus

Balakrishnan Chandrasekaran
Charles A. Csuri
Ming-Tsan (Mike) Liu
Sandy Mamrak
Mervin E. Muller
Bruce Weide
Stuart Zweben

Associate Professor Emeritus

Clinton R. Foulk
Douglas S. Kerr
Timothy Long
William F. Ogden
Rick Parent
Anthony E. Petrarca

Faculty Emeritus

James B. Randels

Clinical Faculty

Rajiv Ramnath

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

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

Research Interests: Scientific Computing; Using Data to Understand Adaptive Complex Enterprises; Enterprise Architecture and Engineering; Human-Machine Systems; Workflow and Work-Management Systems Enterprise Software Engineering and Computer Science Education; Wireless Sensor Network and Pervasive Computing Enterprise Applications; e-Government.

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: Artifical 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

Mark Arnold - Research Specialist Assoiate
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

Research Scientists

Virginia A. Folcik-Nivar

Research Scientist

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

Interests: 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. .

Khaled Hamidouche

Research Scientist

Master's Degree in Computerr Science, High Performance Computing, Paris-Sud Univeristy; Research Doctorare, HPC Computing, Universite Paris Sud.

Research Interests: Programming models for hybrid and heterogeneous systems, MVAPICH2

Jihun Hamm

Research Scientist

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

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

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.

Xiaoyi Lu

Research Scientist

B.S. Electical, Electronics and Communications Engineering, Huazhong University of Science and Technology, 2006. Ph.D. Computer Science, Institute of Computing Technology, Chinese Academy of Sciences, 2012.

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

Hari Subramoni

Research Scientist

B. Tech, COmputer Science, University of Kerala, 2004. M.S., Computer Science and Engineering, The Ohio State University, 2009. Ph.D.., Computer Science and Engineering, The Ohio State University, 2013.

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

Lecturers

Gojko Babic

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.

Bettina Bair

Senior Lecturer

B.S., Business Administration, University of Phoenix, 1987; M.B.A., University of Denver, 1992.

Matthew Boggus

Senior Lecturer

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

Paolo Bucci

Senior Lecturer

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.

Adam Champion

Lecturer

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

Doreen Close

Senior Lecturer

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

Michael Fritz

Lecturer

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.

David Fuhry

Senior Lecturer

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

Michael Green

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.

Wayne Heym

Senior Lecturer

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

Jeff Jones

Senior Lecturer

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

Christine Kiel

Senior Lecturer

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

Michelle Mallon

Lecturer

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

Raymond McDowell

Senior Lecturer

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

Kathryn Reeves

Lecturer

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

Lori Rice

Lecturer

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

Naeem Shareef

Senior Lecturer

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

Ingy Youssef

Lecturer

B.Sc., Information Systems, Ain Shams University, 2001. M.Sc. Information Systems, Ain Shams University, 2006. M.S., Computer Science and Engineering, The Ohio State University, 2014. Ph.D., Computer Science and Engineering, The Ohio State University, 2015.

Anatala T. Wolf

Lecturer

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

Visiting Associate Professor

Yingjun (Paul) Cao
Albert Cohen
Fabrice Jean-Emile Rastello

Visiting Scholars

Elisa Tuler de Albergaria
Haoqiong Bian
Leonardo Chaves Borges Cardoso
Jiahua Chen
Ningjiang Chen
Hua Cheng
Jun He
Xiaowei He
Yanyan Jiang
Yue Liu
Aihua Mao
Weiping Tu
Soumya Wadhwa
Hao Zhang
Jingyu Zhang
Xueliang Zhang

Part-time Lecturers

Senior Lecturers

Thomas Bihari
Stephen Boxwell
Alan Cline
Jihun Hamm
Roman Ilin
Khaled Jaber
Janis Jones
Swaroop Joshi
Praveen Kumar
Scott Mills
Bhuvarahamur Narasimhan
Perumal N. Ramasamy
Jason Van Hulse
Diego Zaccai
Justin Ziniel

Lecturers

Aaron Baxter
Moez Chaabouni
Laurie Crawford
Christopher Domas
Jeffrey Eden
Clair Farris
Charles Giles
Stephen Gomori
Cindy L. Grimme
Shaikh Mohammed Zahid Hossain
Mark Jackson
Suribabu Jayant
Jeremy Johnston
Leon Jairo Madrid
Venkata Krishna Manda
William Thomas Martin
Catherine McKinley
Stephanie S. Preston
Angel Rivera
Dauntrica Rodgers
Richard Wagner
Parker Wiksell

STAFF

Administrative Staff

Catrena Collins - Human Resources Generalist

Tamèra Cramer - Reception

Don Havard - Fiscal Officer

Z. Lynn Lyons - Graduate Admissions and Graduate Studies Coordinator

Wendy Michel - Foscal Associate

Tiffany McGough - PR Coordinator and Chairperson Assistant

Kathryn Reeves - Academic Program Administrator

Christa Yandrich - Grants Administrator

Computing Services Staff

Michael Compton - Director, Computing Services

Tami King - Software Specialist

Dave Kneisly - Computer Operations/ Network Manager

Patrick Jacobs - Senior Operations Specialist

Aaron Jenkins - Systems Manager

Robert Joseph - Systems Developer / Engineer

Todd Lucal - Systems Manager

Shaun Rowland - Senior Systems Developer / Engineer

Ted Welch - Systems Manager

Dreese's Garden of Constants