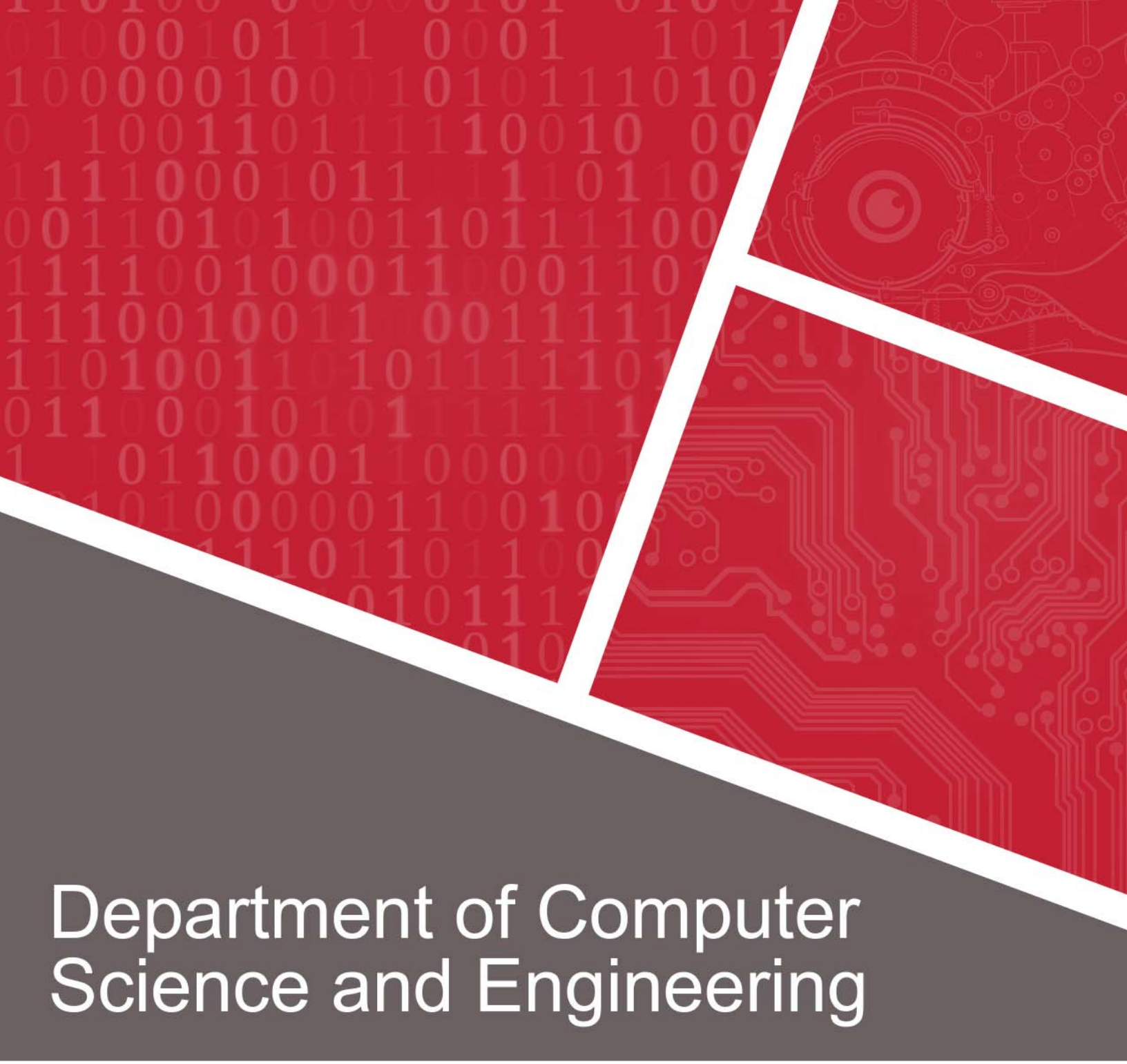

Department of Computer Science and Engineering

2015 -2016 Annual Report

THE OHIO STATE UNIVERSITY

COLLEGE OF ENGINEERING

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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

Arnab Nandi Recipient of the IEEE Technical Committee on Data Engineering Early Career Award

Arnab Nandi, Assistatnt Professor with CSE, was awarded the 2016 IEEE TCDE Early Career Award for his contributions towards user focused data intercation: building data analysis, exploration and querying systems that allow highly interaction expereiences for end users.

This award is based on an individual's whole body of work in the first 5 years after the PhD. The award aims to promote current database researchers as they create their career. The award is given to an individual (if there is at least one qualified candidate) and consists of a plaque to the awardee. The recipient will receive the award at the annual IEEE ICDE Conference during the awards session.

Goldwater Scholarship goes to Ross Vasko

Ross Vasko, a junior honors student in computer science and engineering, has been named a 2016 Goldwater Scholar. The Goldwater is the most prestigious national award for undergraduate researchers in science, math, and engineering. Goldwater Scholars receive an award of $7,500 to cover the cost of tuition, fees, books, and room and board.

Ross is conducting research on flow field visualization with **Drs. Rephael Wenger and Han-Wei Shen** (Dept. of Computer Science & Engineering). His work with Drs. Wenger and Shen has been accepted for presentation at this summer's EuroVis conference in the Netherlands. In addition, Ross spent the summer of 2015 conducting research with Dr. Franz Quint at the Karlsruhe University of Applied Sciences through the DAAD RISE program. Their work on real-time depth estimation of plenoptic cameras was published in Advances in Visual Computing. Ross has received the Shurtz Award for excellence in first-year mathematics, the College of Engineering Undergraduate Research Scholarship, and the Computer Science and Engineering Undergraduate Research Award. After receiving a PhD in computer science, he plans to teach and conduct research on geometric algorithms as a professor.

Ross was among four Ohio State undergraduates nominated for the Goldwater Scholarship. One other OSU student was named a Goldwater scholar and the two others received honorable mention. Nationally, 252 Goldwater scholarships were awarded to sophomores and juniors on the basis of academic merit from a field of over 1,150 mathematics, science, and engineering students who were nominated by colleges and universities nationwide. An additional 256 Honorable Mentions were also awarded. Each institution may only nominate four students for this award. Since the award's inception in 1986, Ohio State has produced 52 Goldwater Scholars; forty-two of the university's last forty-four nominees have been recognized as a scholar or honorable mention.

Distinguished Paper Award at OOPSLA and First Place in ACM Student Research Competition

Ohio State CSE students and faculty received a Distinguished Paper Award at the ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications (OOPSLA) in October. OOPSLA is one of the top publication venues in the area of programming languages and software systems.

The award paper is led by CSE PhD candidate **Swarnendu Biswas** and co-authored by CSE PhD candidate Minjia Zhang, CSE professor **Mike Bond**, and Carnegie Mellon University professor Brandon Lucia. Their paper, "Valor: Efficient, Software-Only Region Conflict Exceptions," demonstrates a novel approach called Valor for improving the reliability of software systems, by ensuring strong behavioral guarantees for all program executions -- even executions that contain a notoriously challenging kind of software bug called a data race. Valor demonstrates how to provide strong execution guarantees even in today's commodity systems, by using a software-only approach that is significantly more efficient than previously known techniques.

The Valor paper also received an OOPSLA Distinguished Artifact Award, honoring Swarnendu's implementation of Valor for exceeding expectations by a committee of evaluators.

In addition, Swarnendu won first place in the graduate category of the 2016 ACM Student Research Competition (SRC). His winning entry, which was based on the Valor work before it was published, was selected from the winners of SRCs across all ACM conferences. Swarnendu and Mike were invited to the ACM Awards Banquet in June where Swarnendu received the award.

Anil Jain Elected to National Academy of Engineering

Anil Jain, an University Distinguished Professor of Computer Science and Engineering at Michigan State University has been elected to the National Academy of Engineering (NAE). Election to the NAE is among an engineer's highest honors. The academy honors those who have made outstanding contributions to engineering research, practice, or education, and to the pioneering of new and developing fields of technology, making major advancements in traditional fields of engineering or developing/implementing innovative approaches to engineering education. Anil Jain was selected for his contributions to the engineering and practice of biometrics.

Anil Jain received his MS in 1970 and Ph.D. in 1973 at Ohio State under the supervision of CSE Professor B. Chandrasekaran. He has a long list of awards for his academic accomplishments, including the Guggenheim Fellowship, Humboldt Research Award, Fulbright Scholarship, King-Sun Fu Prize, and W. Wallace McDowell Award. He a Fellow of ACM, IEEE and the National Academy of Inventors.

Sadayappan Earns Lutron's teaching award

Dr. P Sadayappan was given The Ohio State University and Computer Science and Engineering's fourth Joel and Ruth Spira Excellence in Teaching Award from Lutron. This honor is awarded annually to an individual faculty member who has excelled in teaching and inspiring students during the current academic year.

Professor Sadayappan (Saday) is a top and visible research leader and educator in the area of compilers for high-performance and parallel computing. The research he has carried out for over 30 years at Ohio State has made him a world reowned expert.

Throughout Professor Sadayappan's time with Ohio State he has supervised 38 doctoral dissertations and 51 Master theses. He currently has more than 10 PhD students. Among those students are a distinguished professor and an Intel Fellow. The accomplishments of his students are a testament to the quality time he has spent supervising and mentoring over the years.

In addition to being recognized by Lutron with his Excellence in Teaching Award, Professor Sadayappan's many recognitions include being a Fellow of the IEEE for his contributions in high performance computing and twice receiving the Outstanding Teaching Award from the CSE department.

18th Annual Excellence in Engineering and Architecture Award

Fifteen alumni from The Ohio State University College of Engineering and one community volunteer were honored during the 18th Annual Excellence in Engineering and Architecture Awards on October 9, 2015. Among the honorees was Deborah Shands an alumni from The Ohio State University College of Engineering.

Deborah Shands (MS '88, PhD '94, computer and information science) is a program director for the National Science Foundation's Secure and Trustworthy Cyberspace program, which provides more than $70 million annually in funding for scientific research and education in the areas of security and privacy. She is on rotation from The Aerospace Corporation where she is a researcher and consulting security architect/engineer for space systems.

The Grace Hopper Celebration

The Grace Hopper Celebration of Women in Computing is the world's largest conference for women in technology. Held October 2016 in Houston, Texas, the gathering brought together 12,000 women in the technology field, ranging from students studying computer science to professionals in the software industry.

Grace Hopper consisted of a three day long career fair, keynote speakers, seminars, workshops and plenty of networking and social activities. Some of the Keynote Speakers include– Sheryl Sandberg, COO of Facebook and founder Lean In, Susan Wojcicki, CEO of Youtube, Megan Smith, CTO of United State of America and many other female leaders in the technology fields. Many came back from the conference with multiple job and internship offers in hand but more importantly they came back with gained confidence and the inspiration to achieve dreams and ambitions.

This year Ohio State's ACM-W chapter was able to send 12 girls to the conference with the support from the CSE department and the STEMM Gender Initiatives. The chapter felt that sending it's members to the conference was one of the best ways to demonstrate the mission of supporting women in the computing field.

The department wants to provide women with the opportunity and confidence to succeed in the field – whether that means finding career opportunities through career fair and networking sessions or personal and professional development through the workshops, speakers and seminars.

Third Annual Hackathon

Hackathon 2015 took place the weekend of November 14th and challenged students to 'build something awesome'. This 24-hour event, where student and faculty from all over the Midwest worked together to code and create software that are designed to addressed ongoing issues in society.

The more than 500 attended participants worked in groups and individually throughout the weekend. This is record attendance dwarfed the first and second OHI/O Hackathons in 2013 and 2014, according to Matt Faluotico, a fourth-year in computer science and engineering and an organizer of the event.

This year there were more than 100 teams working on coding and designing at this year's Hackathon. Mentors were on hand to assist students when they ran into technical problems and 60 judges decided the top ten teams. Teams were judged on creativity, real world application and how technically challenging the project was. Each of the top ten teams received prizes from cash to Go-Pro cameras and Apple watches. Prizes were awarded by various sponsors of the event, such as the Wexner Medical Center, Transitional Data Analytics, Esri and Fuse.

The weekend ended with presentations, in front of the judges, from all the teams on what they created in the 24 hours. A top team had the idea related to using quick response codes to fill out hospital forms while another created a game similar to "Missile Command" to teach people about how the body fights off viruses and dis-ease. The winning team created an app called Valet, an event-based parking system where users can rent parking spaces from other people.

This year's event was organized by student and university groups such as Buckeye Hackers, Open Source Club, Electronics Club, ACM-W, Mobile App Developers Club, CWDG, Engineering Career Services, College of Engineering, Department of Computer Science & Engineering, and University Libraries.

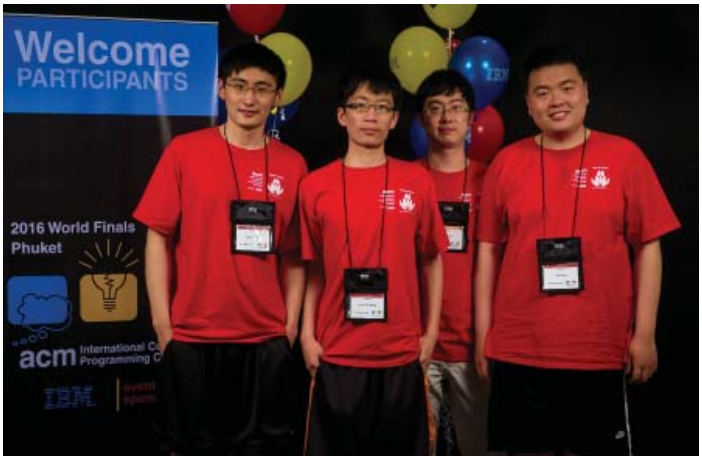
The two faculty advisors for this annual event are CSE professor Arnab Nandi and Library professor Meris Mandermnach. CSE Chair Xiaodong Zhang gave an opening speech in the Hackathon 2015.

World finals for CSE team Future_Gazer

The team, Future_Gazer, formed by three CSE students, Te Zhang, Dingkang Wang and Jian Wang, competed representing The Ohio State University in the ACM - International Collegiate Programming Contest (ACM-ICPC) regional held in Cincinnati on Oct 20, 2015. The team ranked 2nd among all attending universities and ranked 4th among all attending teams in the contest. This is the best result that OSU has reached since 2008.

With the high ranking at the regional contest, team Future_Gazer was invited to compete at the ACM-ICPC world final from May 15-20, 2016 in Thailand. This is the first time a team from The Ohio State University was invited to compete in the world final. The team competed with 128 teams from all around the world and solved three problems in five hours. This level of problem completion by the team earned them an honorable mention. This is the first time a team from OSU has made it to the world final.

Future_Gazer is coached by Suyi Wang, advised by Prof. Yusu Wang and is supported by both the CSE department and the College of Engineering.



New Faculty

Joining CSE in Fall 2016 will be **Dr. Wei Xu**. Dr. Xu is currently a postdoctoral fellow at University of Pennsylvania. She received her Ph.D. in computer science in 2014 from New York University and her research area is in natural language processing.

Promotions

CSE Faculty becoming Associate Professors with tenure this Fall include **Michael Bond, Nicoleta Roman, Kannan Srinivasan and Christopher Stewart.** The CSE department would also like to recognize **Rajiv Ramnath** becoming a Clinical Professor.

Beginning in October 2016, there will be an addition to the rank of Full Professor: **Dr. Eric Fosler-Lussier**. Dr. Fosler-Lussier researches in the area of Linguistics and SBS-Biomedical Inforatics.

Dept. of Computer Science & Engineering
20th Annual Awards Banquet

Scholarships

Central Ohio Chapter of Association of Computing Machinery {ACM}
Maxwell Pettit

Crowe Horwath Scholarship
Alexander Vavra

Ernest William Leggett, Jr. Scholarship The Leggett Family Award Endowment Fund
Reece Holl
Thomas Kiener

Harris Corporation Scholarship
Mariamawit Alula

The O'Connell Family Award
Gweneveir Stevens

Ten-Hwang Lai Scholarship
Eric Soppi
Xu Weng

Wael Bahaa-El-Din Scholarship
Christian Diederich
Adam Wheeler

Women in Computer Science Scholarship
Marielle Edrienne Co

The Steve and Bridget Dritz Scholarship
Dalton Flanagan

Raytheon Corporation
Joshua Clark

Founders of the Computer Science and Engineering Department Scholarship Endowment Fund
Saad Asim
Frederick Gu
Alec Haas
Livia Stanley

Alumni Undergraduate Scholarships
Bryan Arnold
Matthew Bartholomew
Bryon Foltz
Samuel Kampen
Frank Patrizio
Oscar Rubio
Sina Sabet
David Soller
Zachary Schroeder
Caitlin Talbot
Logan Wilson

Undergraduate Research Award
Ross Vasko

Department Awards

B. Chandrasekaran & Sandra Mamrak Graduate Fellowship
Donald Williamson

Mike Liu Graduate Fellowship Award
Anys Bacha

Ten-Hwang Lai Fellowship Award
Swarnendu Biswas

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

Eleanor Quinlan Graduate Teaching Award
Arjun Bakshi

Outstanding Faculty Teaching Award
Dr. Matthew Boggus
Dr. Neelam Soundarajan

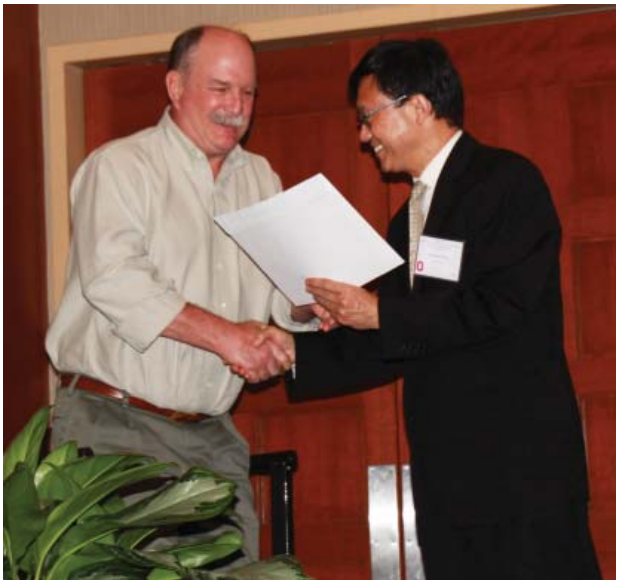
Outstanding Service Award
Don Havard

The 20th Annual CSE Awards Banquet

(Left) Award recipients, Alec Haas and Livia Stanley are presented the Founders of the Computer Science and Engineering Department Scholarship Endowmwnet Fund by Senior Lecturer Wayne Heym.

(Below) Arjun Bakshi receives the Eleanor Quinlan Award from Assistant Professor Yinqian Zhang.

(Above) Zachary Schroeder receives an Alumni Undergraduate Scholarship from Senior Lecturer Jeffrey Jones.



(Above) Advisory board member Dana Vantrease presents the Ten-Hwang Lai Scholarship to Eric Soppi and Xu Weng.

(Left) Don Havard receives the Outstanding Service Award from Xiaodong Zhang.

GRANT FUNDING 2015-2016

New Grants Received in 2015–2016 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

RNET Technologies (Department of Energy subaward)
A MapReduce-like data-intensive processing framework for native data storage and formats
04/06/2015- 04/05/2016
PI: Agrawal
$396,362

National Science Foundation
SHF: Small: Techniques and frameworks for exploiting recent SIMD architectural advances
07/01/2015- 06/30/2018
PI: Agrawal
$449,999

National Science Foundation
II-New: Research infrastructure for energy-aware high performance computing (HPC) and data analytics on heterogeneous systems
07/01/2015- 06/30/2018
PI: Agrawal
Co-PIs: Catalyurek, Panda, Sadayappan, Zhang
$898,685

Department of Energy
Whole-program adaptive error detection and mitigation
07/15/2015- 07/14/2018
PI: Sadayappan

Co-PI: Agrawal
$589,500

Pacific Northwest National Laboratory
Fault tolerant data mining
01/01/2016- 5/15/2016
PI: Agrawal
$22,354

Astute Solutions
Information retrieval techniques for social customer relationship management (CRM) systems
01/01/2016- 12/31/2016
PI: Ramnath
Co-PI: Agrawal
$45,141

Anish Arora

World Wildlife Fund (Google Foundation)
Pilot study of poacher surveillance virtual fence
11/02/2015- 12/31/2016
PI: Arora
$53,895

Mikhail Belkin

National Science Foundation
EAGER: The exploration of geometric and non-geometric structure in data
09/01/2105- 02/28/2017
PI: Belkin
Co-PIs: Hamm, Yusu Wang
$150,000

Roger Crawfis

Patient-Centered Outcomes Research Institute
Comparative effectiveness of a low-cost virtual reality gaming platform for rehabilitation of hemiparesis
11/01/2015 – 10/31/2018
PI: Gauthier
Co-PIs: Crawfis, Borstad
$2,067,798

James W. Davis

Battelle Memorial Institute
Context-based object classification
10/01/2015 - 03/31/2017
PI: Davis
$84,700

Tamal Dey

National Science Foundation
AF: Small: Analyzing complex data with a topological lens
09/01/2015– 08/31/2018
PI: Yusu Wang
Co-PI: Dey, Memoli
$399,999

GRANT FUNDING 2015-2016

National Science Foundation
Conference on Topology, Geometry, and Data Analysis at The Ohio State University
05/15/2016 – 05/14/2017
PI: Kahle
Co-PIs: Memoli, Yusu Wang, Dey
$43,000

National Science Foundation
RTG: Algebraic Topology and Its Applications
06/01/2016- 05/31/2021
PI: Kahle
Co-PIs: Memoli, Yusu Wang, Dey, M. Davis
$1,722,606

Eric Fosler-Lussier

Carney Labs (National Science Foundation sub-award)
STTR: Commercializing reading RACES
01/01/2016- 12/31/2016
PI: Cartledge
Co-PI: Fosler-Lussier, Gardner
$134,733

Facundo Memoli

National Science Foundation
AF: Small: Analyzing complex data with a topological lens
09/01/2015– 08/31/2018
PI: Yusu Wang
Co-PI: Dey, Memoli
$399,999

National Science Foundation
Conference on Topology, Geometry, and Data Analysis at The Ohio State University
05/15/2016 – 05/14/2017
PI: Kahle
Co-PIs: Memoli, Yusu Wang, Dey
$43,000

National Science Foundation
RTG: Algebraic Topology and Its Applications
06/01/2016- 05/31/2021
PI: Kahle
Co-PIs: Memoli, Yusu Wang, Dey, M. Davis
$1,722,606

Arnab Nandi

National Science Foundation
III: Small: Collaborative Research: Towards interactive data visualization management systems
09/01/2015- 08/31/2018
PI: Nandi
$250,000

Gifts:
NetJets
$100,000

DK Panda

National Science Foundation
II-New: Research infrastructure for energy-aware high performance computing (HPC) and data analytics on heterogeneous systems
07/01/2015- 06/30/2018
PI: Agrawal
Co-PIs: Catalyurek, Panda, Sadayappan, Zhang
$898,685

National Science Foundation
SI2-SSI: Collaborative research: A software infrastructure for MPI performance engineering: Integrating MVAPICH and TAU via the MPI tools interface
09/01/2015 – 08/31/2019
PI: Panda
$1,200,000

Engility Corporation (Department of Defense sub-award)
Coupling infiniBand hardware features and network-to-accelerator remote data memory access (RDMA) in the message passing interface (MPI)
09/01/2015 – 08/31/207
PI: Panda
$450,000

Lawrence Livermore National Laboratory
Failure recovery models and interfaces in MVAPICH
08/18/2015 – 08/31/2016
PI: Panda
$71,466

GRANT FUNDING 2015-2016

CSCS- Switzerland National Supercomputing Centre
Support and custom software development relating to the MVAPICH2 library, accelerators, MPI and contemporary networking
05/01/2016- 04/30/2017
PI: Panda
$77,500

Mellanox Technologies, Inc
Research on high performance and scalable MPI over InfiniBand.
04/01/2015- 03/31/2016
PI: Panda
$212,030

Gifts:
NVIDIA Corporation
$182,600

Intel Corporation
$64,171

Mellanox Technologies Inc.
$5,000

Srinivasan Parthasarathy

National Science Foundation
EAGER: Practical graph sparsification on GPUs
09/01/2015- 08/31/2016
PI: Parthasarathy
$111,168

National Science Foundation
Hazards SEES: Social and physical sensing enabled decision support for disaster management and response
08/15/2015 -07/31/2019
PI: Parthasarathy
CoPIs: Kubatko, Liu
$1,975,000

Chunyi Peng

National Science Foundation
NeTS: Small: Collaborative research: Configuration management for mobility support in cellular networks
01/01/2015 – 09/30/2018
PI: Peng
$230,212

National Science Foundation
TWC: Small: Collaborative: Cellular network services in peril: A perspective on control-plane and data-plane design
09/01/2015 – 08/31/2018
PI: Peng
$238,437

Louis-Noel Pouchet

University of Illinois (Intel Corporation subaward)
Customized polyhedral compilation for low-power high-level SoC synthesis
10/01/2015- 09/30/2016
PI: Pouchet
$39,863

Rajiv Ramnath

Astute Solutions
Information retrieval techniques for social customer relationship management (CRM) systems
01/01/2016- 12/31/2016
PI: Ramnath
Co-PI: Agrawal
$45,141

Nationwide Mutual Insurance Company
Integrating telematics data with other data sources to develop models of driver risk
01/01/2016 -12/31/2016
PI: Ramnath
$54,740

John E Fogarty International Center
Bridging the gap in e-capacity for global health research and training in eastern Africa
05/18/2015 – 04/31/2018
PI: Gebreyes
Co-PIs: Ramnath, Bisesi, Gorgas, Menon, Schopis, Xiao
$323,631

Delphos City Schools
Let's BRAG (Bring Robust Achievement Gains) about our schools!
09/01/2015- 06/30/2017
PI: Ramnath
$15,000

GRANT FUNDING 2015-2016

Alan Ritter

National Science Foundation
CRII: III: Learning to extract events from knowledge base revisions
09/01/2015 – 08/31/2017
PI: Ritter
$151,299

Atanas Rountev

National Science Foundation
SHF: Small: Control-flow and data-flow analysis of android software: Foundations and applications
09/01/2015- 08/31/2018
PI: Rountev
$470,208

P. Sadayappan

National Science Foundation
II-New: Research infrastructure for energy-aware high performance computing (HPC) and data analytics on heterogeneous systems
07/01/2015- 06/30/2018
PI: Agrawal
Co-PIs: Catalyurek, Panda, Sadayappan, Zhang
$898,685

RNET Technologies (Defense Research Projects Agency subaward)
Enhancing the performance of high-productivity graph analytics frameworks
09/30/2015- 3/30/2016
PI: Sadayappan
$30,000

Department of Energy
Whole-program adaptive error detection and mitigation
07/15/2015 – 07/14/2018
PI: Sadayappan
$589,500

RNET Technologies (Defense Research Projects Agency subaward)
SBIR Phase 1: Performance portable framework for developing graph applications
05/14/2015 – 05/24/2016
PI: Sadayappan
$45,000

Ness Shroff

National Science Foundation
NeTS: Large: Collaborative Research: Practical Foundations for Networking with Many-Antenna Base Stations
07/01/2015- 06/30/2020
PI: Shroff
$600,000

Raytheon BBN Technologies (Defense Research Projects Agency subaward)
Distributed, agile and robust control of an intrinsically resilient overlay network
07/01/2015- 06/30/2018
PI: Shroff
$749,893

University of California Davis (Army Research Office subaward)
ARO: Advanced security games for cyber-physical systems
06/12/2015- 02/11/2017
PI: Shroff
$300,000

Prasun Sinha

Gifts:
Toyota
$60,000

Kannan Srinivasan

National Science Foundation
NeTS: Medium: Connecting the next billion: Rethinking wireless network design principles for the internet of everything
09/01/2015- 08/31/2019
PI: Koksal
Co-PI: Srinivasan, Eryilmaz
$799,582

National Science Foundation
EARS: Collaborative research: Full duplex for cognitive networks
01/01/2016 – 12/13/2018
PI: Srinivasan
$200,000

Gifts:
Toyota
$60,000

GRANT FUNDING 2015-2016

Chris Stewart
National Science Foundation
Functions for programming: Computer modeling in algebra
10/01/2015 – 09/30/2017
PI: Perez
Co-PIs: Stewart, Malone
$1,201,385

Deliang Wang
Air Force Research Laboratory
Deep neural networks for speech separation with application to robust speech recognition
09/26/2015 – 09/25/2017
PI: D. Wang
$149,998

Huamin Wang
National Science Foundation
CHS: Small: Printable partitioning of 3D models using level set methods
07/01/2015 – 08/31/2018
PI: H. Wang
$407,882

Yang Wang
National Science Foundation
CRII: CSR: Efficient and available replication in large-scale datacenters
04/01/2016 – 03/31/2018
PI: Yang Wang
$175,000

Yusu Wang
National Science Foundation
EAGER: The exploration of geometric and non-geometric structure in data
09/01/2105- 02/28/2017
PI: Belkin
Co-PIs: Hamm, Yusu Wang
$150,000

National Science Foundation
AF: Small: Analyzing complex data with a topological lens
09/01/2015– 08/31/2018
PI: Yusu Wang
Co-PI: Dey, Memoli
$399,999

National Science Foundation
Conference on Topology, Geometry, and Data Analysis at The Ohio State University
05/15/2016 – 05/14/2017
PI: Kahle
Co-PIs: Memoli, Yusu Wang, Dey
$43,000

National Science Foundation
RTG: Algebraic Topology and Its Applications
06/01/2016- 05/31/2021
PI: Kahle
Co-PIs: Memoli, Yusu Wang, Dey, M. Davis
$1,722,606

Xiaodong Zhang
Huawei
Concurrency control and key value stores
02/19/2016 – 02/01/2017
PI: Zhang
$350,000

National Science Foundation
SHF: Medium: Collaborative research: Architectural and system support for building versatile memory systems
07/01/2015- 06/30/2019
PI: Zhang
$300,000

National Science Foundation
II-New: Research infrastructure for energy-aware high performance computing (HPC) and data analytics on heterogeneous systems
07/01/2015- 06/30/2018
PI: Agrawal
Co-PIs: Catalyurek, Panda, Sadayappan, Zhang
$898,685

Yinqian Zhang
National Science Foundation
CRII: SaTC: Rethinking side channel security on untrusted operating systems
05/01/2016 – 04/30/2017
PI: Yinqian Zhang
$175,000

GUEST SPEAKERS AND DISTINGUISHED GUEST LECTURERS

Nina Amenta University of California at Davis
Nearest-Neighbors on the GPU

Ioannis Caragiannis University of Patras
Aggregating Partial Rankings with Applications to Peer Grading In Massive Open Online Courses

Dr. Emanuel Habets University of Erlangen-Nuremberg
Recent Advances in Sound Acquisition for Spatial Audio Communication

Oliver Kennedy University of Buffalo
PocketData: What's in your pocket?

Dr. Yoonkyung Lee The Ohio State University
A Statistical View of Ranking: Midway between Classification and Regression

Veljko Milutinovie Univeristy of Belgrade
DataFlow SuperComputering for BigData Analytics

Dr. Werner Janse van Rensburg Centre for High Performance Computing
Overview of the Centre for High Performance Computing (CHPC):South Africa's National HPC Facility

Alessandro Rudi Massachusetts Institute of Technology
Less is More: Nyström for Large Scale Learning

Dr. Charalampos Tsourakakis Harvard University
Scalable Large Near-Clique Detection in Large-Scale Networks

Dong Yu Microsoft Speech and Dialog Research Group
Deep Neural Network for Single-Channel Mixed Speech Recognition

Luke Zettlemoyer University of Washington
Scalling Semantic Parsers to Large and Varied Domains

STUDENTS

Ten Year Statistical History - Teaching Overview

	AU 2005	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013	AU 2014	AU 2015
Number of Faculty	32	33	35	35	35	36	36	34	38	40	40
Course Enrollment/ Autumn Qtr.	3,187	3,238	3,386	3,702	3,943	4,075	4,609	5,737	6,508	6,932	7,626
	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14	14-15	15-16
Students Taught	10,844	10,641	11,185	12,209	12,689	13,744	14,523	12,457	14,463	15,484	16,697

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

The Graduate Program

With the economy in recovery and a job market demanding high-level computer skills, the Department of Computer Science and Engineering continues to grow even more. The 2015-2016 academic brought new records for the number of students enrolled and number of students taught. In particular, the Graduate Program saw new ten year heights in the records in enrollment, the number of students supported and number of Masters graduated, a return to the numbers seen prior to 2002.

	AU 2005	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013	AU 2014	AU 2015
Graduate Students Enrolled	188	184	235	239	303	304	339	305	327	347	329
	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14	14-15	15-16
Graduate Student Applications	694	619	705	677	817	1,031	1,190	1,196	1,264	1,218	1,205
Graduate Students Supported	163	135	135	132	182	218	209	222	201	231	203
M.S. Degrees Awarded	21	33	37	39	64	40	37	86	93	111	94
Ph.D. Degrees Awarded	18	17	32	26	19	20	14	19	26	28	32
Ph.D. Degrees (cumulative)	361	378	410	436	455	475	489	508	534	562	594

PhD Degrees Granted

Name Post Graduation Destination
Advisor Hometown
Vita
Dissertation Title

Dr. Sameh Abdulah KAUST, Saudia Arabia
Dr. Gagan Agrawal Columbus, Ohio, USA
B.S., M.S. Minufuya University; M.S., The Ohio State University
Addressing Disk Bandwidth Wall and Fault-Tolerance for Data to Intensive Applications

Dr. Arindam Bhattacharya Intel Corporation, Hillsboro, OR, USA
Dr. Rephael Wenger Kolkata, India
Bachelor's, West Bengal University of Technology; M.S., The Ohio State University
Gradient Dependent Reconstruction from Scalar Data

Dr. Bo Chen Cisco Meraki, San Francisco, CA, USA
Dr. Kannan Srinivasan Yangzhou, China
B. Engr., B.S., Shanghai Jaio Tong University
Taming Interference Through Collaboration in Network Systems

Dr. Linchuan Chen Google, Mountain View, CA, USA
Dr. Gagan Agrawal Lianyungang, China
Bachelor's, Nanjing University; M.S., The Ohio State University
Accelerating Applications with Pattern-specific Optimizations on Accelerators and Coprocessors

Dr. Zhili Chen Adobe, San Francisco, CA, USA
Dr. Huamin Wang Chongqing, China
Bachelor's, Tsinghua University; M.S., The Ohio State University
Towards real-time simulation of interactions among solids and fluids

Dr. Nan Deng Google, Mountain View, CA, USA
Dr. Christopher Stewart Beijing, China
Bachelor's, Beijing University of Posts and Telecommunications; Bachelor's, University of London
Systems Support for Carbon-Aware Cloud Applications

Dr. Venmugil Elango NVIDIA, Redmond, WA, USA
Dr. P. Sadayappan Chennai, India
B.E., Anna University; M.S., The Ohio State University
Techniques for Characterizing the Data Movement Complexity of Computations

Dr. SM Faisal Google, San Francisco, CA, USA
Dr. Srinivasan Parthasarthy Khulna, Bangladesh
B.S., Islamic University of Technology; M.S., The Ohio State University
Towards Energy Eddicient Data Mining & Graph Processing

Dr. David Fuhry The Ohio State Univeristy, Columbus, OH, USA
Dr. Srinivasan Parthasarthy West Farmington, OH, USA
B.S., M.S., Kent State University; M.S., The Ohio State University
PLASMA-HD: Probing the LAttice Structure and MAkeup of High-dimensional Data

Dr. Xiaoyin Ge Google Inc., New York, NY, USA
Dr. Yusu Wang Shanghai, China
B.S., Tongji Univeristy; M.S., The Ohio State University
Feature Aware Sampling and Reconstruction

Dr. Jen He — Amazon; Seattle, WA, USA
Dr. Anish Arora — Kent, OH, USA
B.S., Tsinghua University; M.S., Michigan Technological University; M.S., The Ohio State University
Robust Mote-Scale Classification of Noisy Data via Machine Learning

Dr. Rajkumar Kettimuthu — Argonne National Laboratory,; Argonne, IL, USA
Dr. Gagan Agrawal, Dr. P. Sadayappan — Naperville, IL, USA
B. Engr., Anna University; M.S. The Ohio State University
Type- and Workload-Aware Scheduling of Large-Scale Wide-Area Data Transfers

Dr. Martin Kong — Rice University; Houston TX, USA
Dr. Louis Noel Pouchet, Dr. P. Sadayappan — Columbus, OH, USA
B.S., Pontifical Catholic University of Peru; M.S., The Ohio State University
Enabling Task Parallelism on the Hardware/Software Layers using the Polyhedral Model

Dr. Mehmet Kurt — Quantcast; San Francisco, CA, USA
Dr. Gagan Agrawal — Columbus, OH, USA
B.S., Bilkent University; M.S., Bilkent Univeristy
Fault-tolerant Programming Models and Computing Frameworks

Dr. Mucahid Kutlu — Qatar University
Dr. Gagan Agrawal — Columbus, OH, USA
B.S., Bilkent University; M.S., Bilkent Univeristy
Parallel Processing of Large Scale Genomic Data

Dr. Zhizhou Li — Palo Alto Networks, Inc.; San Francisco, CA
Dr. Ten-Hwang Lai — Columbus, OH, USA
B.Engr., M.S., Tsinghua University; M.S., The Ohio State University
Multi-Scheme Fully Homomorphic Encryptions And Its Applicaiton In Privacy Preserving Data Mining

Dr. Yi Ma — Kasisto, Inc.; NewYork, USA
Dr. Eric Fosler-Lussier — Guangzhou, China
B.S., University of Science and Technology of China; M.S., The Ohio State University
Learning for Spoken Dialog Systems with Discriminative Graphical Models

Dr. David Maung — Games That Move You, pbc.; Columbus OH, USA
Dr. Roger Crawfis — Columbus, OH, USA
B.S. San Diego State University
Tile-based Method for Procedural Content Generation

Dr. Nan Meng — Two-Sigma; New York, NY, USA
Dr. Raghu Machiraju, Dr. Kun Huang — Qinhuangdao,China
B.S., Hebei University of Technology; M.S., The Ohio State University
Identifying Recurrent Patterns of Chromatin Modidications at Regulatory Regions on Genome

Dr. Naseraddin Mokhtari — Imagination Technologies, San Francisco, CA, USA
Dr. P. Sadayappan — Birjand, Iran
B.S., Ferdowsi Univeristy of Mashhad; M.S., Univeristy of Tehran; M.S., The Ohio State University
Performance Optimization of Memory-Bound Programs on Data Parallel Accelerators

Dr. Qichao Que — Facebook; Menlo Park, CA, USA
Dr. Mikhail Belkin — Hangzhou, China
B.S., Zhejiang University; M.S., The Ohio State University
Integral Equations in Machine Learning Problems

Dr. Satyajeet Raje — National Library of Medicine; Bethesda, MD, USA
Dr. Jayashree Ramanathan, Dr. Gagan Agrawal — Pune, India
B.E., University of Pune; M.S. The Ohio State University
ResearchIQ: An End-To-End Semantic Knowledge Platform for Resource Discovery in Biomedical Research

Dr. Renji George Thomas — Intel Corp.; Portland, OR, USA
Dr. Mircea-Radu Teodorescu — Trivandrum, India
B.Engr., Anna Univeristy; M.S., The Ohio State Univeristy
Architectural Solutions for Mitigating Voltage Noise in GPUs

Dr. James Voss — Google, Inc.; Boston, MA, USA
Dr. Mikhail Belkin, Dr. Luis Rademacher — Beavercreek, OH, USA
M.S., The Ohio State University
Hidden Basis Recovery: Methods and Applications in Machine Learning

Dr. Kaibo Wang — Google Inc.; Kirkland, WA, USA
Dr. Xiaodong Zhang — Bozhou, China
B.S., Northwestern Polytechnic University; M.S., Northwestern Polytechnic University
Algorithmic and Software System Support to Accelerate Data Processing in CPU-GPU Hybrid Computing Environments

Dr. Yi Wang — Google Inc.; Mountatin View CA, USA
Dr. Gagan Agrawal — Wuhan, China
B.Engr., Wuhan University; M.S., The Ohio State University
Data Management and Data Processing Support on Array-Based Scientific Data

Dr. Donald Williamson — Indiania University; Bloomington, IN, USA
Dr. Deliang Wang — Columbus, OH, USA
B.S., Univeristy of Delaware; M.S., Drexel University; M.S., The Ohio State University
Deep Learning Methods for Improving the Perceptual Quality of Noisy and Reverberant

Dr. Shengqian Yang — The Ohio State University, Columbus, OH USA
Dr. Atanas Rountev — Columbus, OH, USA
B.S., Shanghai Jiao Tong University; M.S., The Ohio State University
Static Analyses of GUI Behavior in Android Applications

Dr. Diego Zaccai — The Ohio State University; Columbus, OH USA
Dr. Bruce Weide — Bexley, OH, USA
B.S. Computer Science and Engineering, The Ohio State Univeristy; M.S., The Ohio State University
A Balanced Verification Effort for The Java Language

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. Mai Zheng — New Mexico State University, NM, USA
Dr. Feng Qin — Columbus, OH, USA
B.S., Qingdao University; Master's University of Science and Technology of China; M.S., The Ohio State University
Towards Manifesting Reliability Issues in Modern Computer Systems

Dr. Wenjie Zhou — Google Inc.; Columbus, OH USA
Dr. Prasun Sinha — Huanggang, China
B.S., University of Science and Technology of China; M.S., The Ohio State University
Cross MAC-PHY Layer Channel Access Mechanism for Enterprise Wireless LANs

Masters Graduates

Name
Advisor
Home
Vita

Shashank Agarwal
Rajiv Ramnath
Columbus, OH, USA
Engr. Dipl., Aligarth Muslim University; B.Tech., Guru Gobind Singh Indraprastha University

Aakanksha Agnani
Srinivasan Parthasarathy
Kota, India
B. Engr., University of Mumbai

Joseph Anderson
Luis Rademacher
Columbus, OH, USA
B.S., St. Vincent College

Christopher Anderson
James Davis
Cincinnati, OH, USA
B.S., Xavier University

Brian Andrew Arand
Raghu Machiraju
Columbus, OH, USA
B.S. Computer Science and Engineering, The Ohio State University

Shivam Atri
Michael Bond
Allahabad, India
B. Tech, Uttar Pradesh Technical University

Anys Bacha
Radu Teodorescu
Dublin, OH, USA
B.S., M.S., Western Michigan University

Adithya Bhat
Dhabaleswar Panda
Hubli, India
Bachelor's, Visvesvaraya Technological University

Neha Satishrao Bhende
Han-Wei Shen
Amravati, India
B. Engr, Univeristy of Pune

Ayan Biswas
Han-Wei Shen
Mankundu, India
B.S. Computer Science and Engineering, Jadavpur University

David Campbell
Rajiv Ramnath
Columbus, OH, USA
B.F.A., Univeristy of Illinois at Ubrana-Champaing

Aniket Chakrabarti
Srinivasan Parthasarathy
Columbus, OH, USA
B. Engr., Jadavpur University

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B. Engr., University of Mumbai

Jitong Chen
Deliang Wang
Xianju, Zhejiang, China
Bachelor's, Northeastern University

Xiangzhou Chen
Feng Qin
Changsha, China
B. Engr., Tongi University

Yingshuo Chen
Dong Xuan
Beijing, China
B. Engr., Beijing Institute of Technology

Abhishek Das
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Siliguri, India
Bachelor's, Bengai Engineering and Science University

Shayoni Das
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B. Tech., West Bengal University of Technology

Zhe Dong
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Columbus, OH, USA
B. Engr., Beijing University of Posts and Telecommunications

Keegan Timothy Donnelly
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B.S. Computer Science and Engineering, The Ohio State University

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Justin Matthew Eldridge
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B. Tech.,Amrita University

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B.S., Emporia State University

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B. Engr., Birla Institute of Technology and Science

Winfred James Jebasingh
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B. Engr., Anna University

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Bachelor's, Shanghai Jiao Tong University; M.S., The Ohio State University

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Kannan Srinivasan
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Bachelor's, Wuhan University

Pei-Hua Lin
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B.S., National Central University, Taiwan

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B.S., Shanghai Jiao Tong University

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Bachelor's, University of Electronic Science and Technology of China

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B.S., National Tsing Hua University

Yuetian Lou
Neelam Soundarajan
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B.S., Huaqiao University

Yiran Luo
Dong Xuan
Nanjing, China
B.S. Computer Science and Engineering, The Ohio State University

Thomas Lynch
Rajiv Ramnath
Toledo, OH. USA
B.S.S.W. The Ohio State University; B.S., Bowling Green State University

Sai Ratna Kiran Maddipati
P. Sadayappan
Hyderabad, India
B. Engr., M.S., Birla Institute of Technology and Science

Kayhan Moharreri
Jayashree Ramanathan
Columbus, OH, USA
Bachelor's, Shahid Betheshti University

Te Mu
Rajiv Ramnath
Columbus, OH, USA
B. Engr, Zhejiang University; M.S. University of Hong Kong

Jagannath Narasimhan
Rajiv Ramnath
Bangalore, India
B. Engr., Visvesvaraya Technological Univeristy

Chirag Paresh Parekh
Michael Bond
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B. Engr., Maharaja Sayajirao University of Baroda

Lakshmi Anusha Pasagadugula
Rajiv Ramnath
Visakhapatnam, India
B. Engr., Birla Institute of Technology and Science

Nandan Phadke
P. Sadayappan
Pune, India
B. Engr., Univeristy of Pune

Md Rahman
Dhabaleswar Panda
Dhaka, Bangladesh
B.S., Bangladesh University of Engineering and Technology

Vishakha Rai
Gagan Agrawal
Jhansi, India
B. Tech., Uttar Pradesh Technical University

Veena Rajasekar
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Chennai, India
B. Engr., Birla Institute of Technology and Science

Priyanka Sadavartia
Mikhail Belkin
Kolkata, India
B. Tech., West Bengal University of Technology

Meisan Fathi Salmi
Xiaodong Zhang
Baharetan, Isfahan, Iran
B.S., Tarbiat Modarres University; M.S., Iran University of Science and Technology

Samarth Savanur
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Bijapur, Karnataka, India
B. Engr., Visvesvaraya Technological Univeristy

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Hyderabad, India
B. Tech., Vellore Institute of Technology

Arita Sengupta
Michael Bond
Kolkata, India
Bachelor's, Vellore Institute of Technology

Gaurav Shah
Rajiv Ramnath
Mumbai, India
B. Engr., Univeristy of Mumbai

Chaitanya Shivade
Eric Fosler-Lussier
Pune, India
B.Engr., University of Pune

David Ryan Siegal
Gagan Agrawal
Hilliard, OH, USA
B.S. Computer Science and Engieering, The Ohio State University

Sanchit Sindhwani
P. Saddayappan
Faridabad, Haryana, India
B. Tech., Maharshi Dayanand University

Gaurav Singh
Spyridon Blanas
Columbus, OH, USA
B. Tech., Symbiosos International University

Shashank Singh
P. Saddayappan
Lucknow, India
B. Engr., Manipal University

Akariti Srikanth
Rajiv Ramnath
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B. Engr., Visvesvaraya Technological Univeristy

Adhijit Sringeri Vageeswara
P. Saddayappan
Bangalore, India
B. Engr., Visvesvaraya Technological Univeristy

Paranjay Srivastava
Michael Bond
Pilani, India
B. Tech., Indian Institute of Technology Guwahati

Vivek Ratnavel Subramanian
Arnab Nandi
Chennai, India
B. Tech., Anna University

Govind Syamkumar
Srinivasan Parthasarathy
Trivandrum, India
B. Tech., University of Kerala

Ganga Reddy Tankasala
Luis Rademacher
Nizamabad, India
B. Tech., National Institute of Technology Warangal

Xin Tong
Han-Wei Shen
Wuhan, China
B. Engr., Tongji University

Richard Wagner
Rajiv Ramnath
New Albany, OH, USA
B.S. The Ohio State University, The Ohio State University

Jian Wang
Xiaodong Zhang
Hang Zhaou, China
B.S., University of Iowa

Junshi Wang
Prasun Sinha
Beijing, China
B. Engr., Beijing University of Technology

Suyi Wang
Yusu Wang
Tangshan, China
Bachelor's, Beijing Normal University

Jiabei Xu
Dong Xuan
Wuhan, China
B.S. Elec.Eng., Hubei University of Technology

Rui Yan
Gagan Agrawal
Qinhuangdao, Hebei, China
Bachelor's, Xidian University

Fan Yang
Dong Xuan
Columbus, OH, USA
M.S., Shanghai Jiao Tong University

Quan Yu
Roger Crawfis
Anging, Anhui, China
Bachelor's, Master's, Zhejiang University

Xiaobo Zhang
Feng Qin
Changsha, China
B. Engr., Central South University

Yuhao Zhang
Srinivasan Parthasarathy
Columbus, OH, USA
B. Engr., Wuhan University

Xiangyang Zhou
Gagan Agrawal
Beijing, China
B. Engr., Beihang University

Undergraduate Program

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

	AU 2005	AU 2006	AU 2007	AU 2008	AU 2009	AU 2010	AU 2011	AU 2012*	AU 2013	AU 2014	AU 2015
Undergrad Students Enrolled	800	795	817	877	871	971	1,102	1,287	1,413	1,498	1,617
	05-06	06-07	07-08	08-09	09-10	10-11	11-12	12-13*	13-14	14-15	15-16
B.A., B.S. Degrees Awarded	124	140	142	138	127	152	213	229	204	244	292

*****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 on the Executive Committee of ACADAOS and co-chairs the Large Universities interest group of NACADA (National Academic Advising Association).

C.A. 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.

College of Arts and Sciences

Name, Degree

Honor(s) Earned
Home

★ **Ganiyu Adeola, BS**
Dublin, Ohio, USA

★ **Adam Christopher Bailey, BA**
Dublin, Ohio, USA

★ **Aaron Michel Benson, BS**
Trotwood, Ohio, USA

★ **Grant Michael George Biggert, BA**
Columbus, Ohio, USA

★ **Alexander Zachary Bollas, BS**
Columbus, Ohio, USA

★ **Jonathan James Briska, BA**
Crystal Lake, Illinois, USA

★ **Joseph Mark Brunner, BS**
Cincinnati, Ohio, USA

★ **Andrew David Canale, BS**
Westerville, Ohio, USA

★ **Daniel Michael Carlozzi, BS**
Canfield, Ohio, USA

★ **Qu Chen, BA**
Magna Cum Laude
Daqing, China

★ **Justin Thomas Chumita, BS**
Hilliard, Ohio, USA

★ **Brian Andrew Cooksey, BS**
Columbus, Ohio, USA

★ **Mitchell George Cooley, BS**
Chardon, Ohio, USA

★ **Drew Bernard Cosner, BA**
Parma, Ohio, USA

★ **Nicholas Wayne Darby, BS**
Columbus, Ohio, USA

★ **Garrett Stephen Davis, BA**
Oak Hill, Ohio, USA

★ **Nicholas Alan DiCocco, BS**
Reynoldsburg, Ohio, USA

★ **Mithra Doddi, BA**
Dublin, Ohio, USA

★ **Katie L. Dragga, BA**
Summa Cum Laude
Lyndhurst, Ohio, USA

★ **Jacob Andrew Edelen, BS**
Sidney, Ohio, USA

★ **Linus Christian Falck-Ytter, BS**
Cleveland, Ohio, USA

★ **Jiatao Fan, BS**
Summa Cum Laude
Xi'an, China

★ **John Paul Feerick, BS**
Cum Laude
Columbus, Ohio, USA

★ **Joshua Fenton, BS**
Columbus, Ohio, USA

★ **Katherine Bridgette Finley, BS**
Brecksville, Ohio, USA

★ **Stacey L. Frye, BA**
Ozone Park, New York, USA

★ **Usama Hafez, BA**
Beirut, Lebanon

★ **Arthur Ulrick Hilson, BS**
Columbus, Ohio, USA

★ **Elisabeth Allyson Holtman, BS**
Hilliard, Ohio, USA

★ **Benjamin James Imwalle, BS**
Hilliard, Ohio, USA

★ **Taylor Charles Jackwood, BS**
Wooster, Ohio, USA

★ **Chenjian Jia, BS**
Beijing, China

★ **Jimmy Kang, BS**
Plain City, Ohio, USA

★ **Tamil Nadaipavai Sethuraman Kaviarasan, BS**
Dublin, Ohio, USA

★ **David Alexander Kerns, BS**
Cum Laude, with Honors in Arts & Sciences
Charleston, West Virgina, USA

★ **Phil Michael King, BS**
South Euclid, Ohio, USA

★ **Brittany Rose Kosek, BS**
Medina, Ohio, USA

★ **Trong Phuoc Le, BA**
Cincinnati, Ohio, USA

★ **Manlan Li, BS**
Cum Laude
Columbus, Ohio, USA

★ **Taylor Montgomery Lilley, BS**
Findlay, Ohio, USA

★ **Hongyuan Lu, BS**
Columbus, Ohio, USA

★ **Claude M. Mbemba, BA**
Cum Laude
Lewis Center, Ohio, USA

★ **Johnny Ernesto Mercado, BS**
Columbus, Ohio, USA

★ **John P. Mezger, BS**
Fayetteville, Ohio, USA

★ **Joshua John Mocarski, BA**
Perry, Ohio, USA

★ **Matthew T. Mohr, BA**
Troy, Ohio, USA

★ **Sean Nicholas Nicely, BS**
Eighty Four, Pennsylvania, USA

★ **Andrew Conor Nocton, BS**
Lebanon, Ohio, USA

★ **Benjamin Jeffrey Obringer, BS**
Coldwater, Ohio, USA

★ **Tania M. Prince, BS**
Columbus, Ohio, USA

★ **Bennett Purple, BS**
Mason, Ohio, USA

★ **Samuel Makem Randolph, BS**
Columbus, Ohio, USA

★ **Daniel Edward Schlitt, BS**
Magna Cum Laude
Ashland, Ohio, USA

★ **Stanley B. Shaprio, BS**
Bethlehem, Pennsylvania, USA

★ **Ryan Christopher Thomas, BS**
Brookville, Ohio, USA

★ **Melissa Ann Trykowski, BS**
Chardon, Ohio, USA

★ **Michael Abraham Vieth, BS**
The Woodlands, Texas, USA

★ **Ian Michael Weber, BS**
Worthington, Ohio, USA

★ **Jordan Michael Wilking, BA**
Magna Cum Laude
Bellefontaine, Ohio, USA

★ **Paul James Williams**
Broadview Heights, Ohio, USA

★ **Xuanlin Yang, BA**
Summa Cum Laude
Mudanjiang, China

★ **Brian S. Zake, BA**
Akron, Ohio, USA

★ **Lihe Zhang, BA**
Summa Cum Laude
Urumqi, China

★ **Danny Zhang, BS**
Lewis Center, Ohio, USA

College of Engineering

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

Honor(s) Earned
Home

★ **Abdulwasi Mohammed Abdulkarim**
Columbus, Ohio, USA

★ **Nebras Muhammad Alnemer**
Westerville, Ohio, USA

★ **Taumer Hani Anabtawi**
Cum Laude, with Honors in Engineering
Columbus, Ohio, USA

★ **Paul Julius Anderson**
Cincinnati, Ohio, USA

★ **Nicholas Hill Armold**
Aurora, Ohio, USA

★ **Anna Baglione**
Cum Laude, with Honors in Engineering
Reynoldsburg, Ohio, USA

★ **Alexander Thomas Bahas**
Pickerington, Ohio, USA

★ **Zakariya A. Bainazarov**
Cum Laude
Columbus, Ohio, USA

★ **Anna Marie Baker**
Columbus, Ohio, USA

★ **Alexander David Berger**
Magna Cum Laude, with Honors in Engineering
Cincinnati, Ohio, USA

★ **Parvinder Kaur Bhullar**
Columbus, Ohio, USA

★ **Wang Bian**
Shanghai, China

★ **Joseph Delos Bota**
Loveland, Ohio, USA

★ **Jazmin MaShawn Brooks**
Reynoldsburg, Ohio, USA

★ **Eric Maxwell Brunton**
Columbus, Ohio, USA

★ **James Anand Burgess**
Chardon, Ohio, USA

★ **Joshua David Byrne**
Magna Cum Laude
Homer, Ohio, USA

★ **Malcolm Sky Callis**
Magna Cum Laude
Vanlue, Ohio, USA

★ **Aaron Lee Camm**
Columbus, Ohio, USA

★ **Patrick Craig Cardwell**
Columbus, Ohio, USA

★ **Thomas Jefferson Carlin**
Cleveland, Ohio, USA

★ **Brian Paul Carr**
Cum Laude
Centerville, Ohio, USA

★ **Jefferson Paul Casavant**
Cincinnati, Ohio, USA

★ **Nicholas James Causey**
Cum Laude
Findlay, Ohio, USA

★ **Michael Yuan Chen**
Solon, Ohio, USA

★ **Andrew Cheng**
Columbus, Ohio, USA

★ **Connor Harrison Clark**
Springboro, Ohio, USA

★ **Shane Michael Clark**
Gahanna, Ohio, USA

★ **Andrew John Clinton**
Columbus, Ohio, USA

★ **Alex London Cohen**
Ivyland, Pennsylvania, USA

★ **Matthew James Conrad**
Magna Cum Laude
Kettering, Ohio, USA

★ **Jesse Reed Cover**
Iaeger, West Virginia USA

★ **Alexander Ashley Cueto**
Columbus, Ohio, USA

★ **John M. Cyphert**
Summa Cum Laude
Shleby, Ohio, USA

★ **Brandon P. Dahl**
Tipp City, Ohio, USA

★ **Petro Bohdan Danylewycz**
North Royalton, Ohio, USA

★ **Devin Antonio DeCaro-Brown**
Macedonia, Ohio, USA

★ **Feras Deiratany**
Columbus, Ohio, USA

★ **Wilfred B. Denton**
Cum Laude
Columbus, Ohio, USA

★ **Dominic Joseph DiBlasio**
Independence, Ohio, USA

★ **Mark William DiVelbiss**
Westerville, Ohio, USA

★ **Samuel Sweeney Donnellon**
Charleston, South Carolina, USA

★ **Kevin Patrick Dunphy**
Weston, Florida, USA

★ **Joseph Tyler Dye**
Dublin, Ohio, USA

★ **Aaron Scott Ebbinghaus**
Houston, Texas, USA

★ **Scott David Ervin**
Shelby, Ohio, USA

★ **Nima Esmali Mokaram**
Magna Cum Laude
Chantilly, Virginia, USA

★ **J. Allen Espinosa-Smith**
Bexley, Ohio, USA

★ **Matthew Philip Faluotico**
Stow, Ohio, USA

★ **Gang Fang**
Shanghai, China

★ **Ryan Chase Farina**
Westerville, Ohio, USA

★ **Ryan Aaron Faulhaber**
Cleveland, Ohio, USA

★ **Peter Bryce Ferguson**
Strongsville, Ohio, USA

★ **Corey Albert Ferris**
Pickerington, Ohio, USA

★ **Brian Jacob Fintel**
West Chester, Ohio, USA

★ **Glen Lee Gainer**
Magna Cum Laude
Westerville, Ohio, USA

★ **Javkhlan-Ochir Ganbat**
Cum Laude
Ulaanbaatar, Mongolia

★ **Michael Paul Gans**
Cum Laude
Columbus, Ohio, USA

★ **Morgan M. Gende**
Rock Island, Illinois, USA

★ **Stephen Matthew George**
Galloway, Ohio, USA

★ **Austin Taylor Gilliam**
Columbus, Ohio, USA

★ **Chaz D. Gordish**
Magna Cum Laude
North Canton, Ohio, USA

★ **Selena Danielle Grant**
Columbus, Ohio, USA

★ **Johns Schneider Gresham**
Magna Cume Laude with Honors in Engineering
Powell, Ohio, USA

★ **Ishmeet Singh Grewal**
Magna Cume Laude
Canfield, Ohio, USA

★ **Austin Christopher Grosel**
Avon Lake, Ohio, USA

★ **Yifan Gu**
Shanghai, China

★ **Jared Hagans**
Columbus Ohio, USA

★ **Thomas Joseph Hartz**
Streetsboro, Ohio, USA

★ **Abigail Haseley**
Lockport, New York, USA

★ **John Arnold Haviland**
Columbus, Ohio, USA

★ **Joseph Mackenzie Hayden**
Cum Laude
Felicity, Ohio, USA

★ **Yunan He**
Shenzhen, China

★ **Jared Michael Headings**
Kenton, Ohio, USA

★ **Kelly Marie Hill**
Mentor, Ohio, USA

★ **Matthew Robert Hilty**
Lewis Center Ohio, USA

★ **Sydney Alexandra Hodge**
Magna Cum Laude
Warrensville Hts, Ohio, USA

★ **Curtis Mark Holton**
Cum Laude
Russellville, Ohio, USA

★ **Kaiwen Hu**
Wuhan, China

★ **Jeffrey Jay Huggins**
Zanesville, Ohio, USA

★ **Feysal Ali Ibrahim**
Columbus, Ohio, USA

★ **John WIlliam Jackson**
Magna Cum Laude
Westerville, Ohio, USA

★ **Daniel Jennyu Jaung**
Dublin, Ohio, USA

★ **Daniel Jiang**
Newton, Massachusetts

★ **Ayush Kalani**
Cum Laude
Jaipur, India

★ **Colin Alexander Kalnasy**
Hilliard, Ohio, USA

★ **Jessica Victoria Kasson**
Blacksburg, Ohio, USA

★ **Ryan Patrick Kast**
Cincinnati, Ohio, USA

★ **Garrett Richard Kelling**
Magna Cum Laude
Amherst, Ohio, USA

★ **Brian Patrick Kelly**
Sylvania, Ohio, USA

★ **Kevin Philip Kesicki**
Cum Laude
Strongsville, Ohio, USA

★ **Nathan Timothy Kessler**
Galena, Ohio, USA

★ **Andy Daehyun Kim**
Cum Laude
Hilliard, Ohio, USA

★ **Ian Kirchner**
Liberty Township, Ohio, USA

★ **David Kinney Kohn**
Moreland Hills, Ohio, USA

★ **Kathryn Elizabeth Kostich**
Morrow, Ohio, USA

★ **Jonathan Lawrence Kovacic**
Willowick, Ohio, USA

★ **Jonathan Donals Krammer**
Magna Cum Laude
West Chester, Ohio, USA

★ **Ariane Jamie Salvador Krumel**
Defiance, Ohio, USA

★ **Matthew Kujawinski**
Pittsburgh, Pennsylvania, USA

★ **Parker Lendon Kurtz**
Gahanna, Ohio, USA

★ **Michelle Elizabeth Kusold**
Willoughby Hills, Ohio

★ **Joshua William Laney**
Columbus, Ohio, USA

★ **Robert E. LaTour**
Cum Laude
Dublin, Ohio, USA

★ **Michael Jacob Lavender**
Minford, Ohio, USA

★ **Marvin Qi Di Lee**
Columbus, Ohio, USA

★ **Joan Katherin Lemaster**
Summa Cum Laude
Columbus, Ohio, USA

★ **Songqiao Li**
Stow, Ohio, USA

★ **Di Li**
Magna Cum Laude
Beijing, China

★ **Ziyu Li**
Beijing, China

★ **Jeffrey Lin**
West Chester, Ohio, USA

★ **Samuel George Litowitz**
Husdon, Ohio, USA

★ **Nathan Litwinowicz**
Akron, Ohio, USA

★ **Fangzhou Liu**
Beijing, China

★ **Menghua Liu**
Shanghai, China

★ **Qing Liu**
Cum Laude
Shenzhen, China

★ **Zheng Liu**
Shenzhen, China

★ **Jay Jacoby Lorenz**
Cum Laude
Columbus, Ohio, USA

★ **Amber Nicole Lott**
Pickerington, Ohio, USA

★ **Ankai Lou**
Cum Laude
Dublin, Ohio, USA

★ **James Richard Lowrey**
Cum Laude with Honors in Engineering
Columbus, Ohio, USA

★ **Clement Lu**
Magna Cum Laude
Fairborn, Ohio, USA

★ **Yiming Lu**
Suzhou, China

★ **Austen Kayn Madden**
Pataskala, Ohio, USA

★ **William Charles Madley**
Chicago, Illinois, USA

★ **Christopher Alan Makepeace**
Brunswick, Ohio, USA

★ **Nikit Rajeev Malkan**
Lewis Center, Ohio

★ **Weichao Mao**
Nantong, ChinaLoveland, Ohio, USA

★ **Daniel Joseph Marchese**
Magna Cum Laude with Honors in Engineering
Mason, Ohio, USA

★ **David Matthew Margolis**
Beachwood, Ohio, USA

★ **Samuel Lawrence Massari**
Broadview Heights, Ohio, USA

★ **Michael K. Matonis**
Magna Cum Laude
Sagamore Hills, Ohio, USA

★ **Michael Eugene McGaha**
New Philadelphia, Ohio, USA

★ **Kelsey Quinn McHenry**
Amelia, Ohio, USA

★ **Gregory Patrick McManamon**
Lewis Center, Ohio, USA

★ **Jimmy Mei**
Brooklyn, Ohio, USA

★ **Christopher James Menart**
Summa Cum Laude with Honors in Engineering
Dayton, Ohio, USA

★ **Torri S. Miller**
Marion, Ohio, USA

★ **Andrew Paul Miller**
Columbus, Ohio, USA

★ **Brandon Timothy Mills**
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Hilliard, Ohio, USA

★ **Ziqian Ming**
Magna Cum Laude
Columbus, Ohio, USA

★ **Alexander C. Moen**
Long Grove, Illinois, USA

★ **Edward Momot**
Galloway, Ohio, USA

★ **Blaine Morbitzer**
Grove City, Ohio, USA

★ **Steven Lawrence Moskal**
Mentor, Ohio, USA

★ **Andrew James Motika**
Magna Cum Laude
Powell, Ohio, USA

★ **Derek Thomas Murphy**
Elyria, Ohio, USA

★ **Timothy Richard Nash**
Columbus, Ohio, USA

★ **Alexander Michael Neal**
Loveland, Ohio, USA

★ **Austin Michael Neidert**
Cloverdale, Ohio, USA

★ **Justin David Neidert**
Cloverdale, Ohio, USA

★ **Bradley Daniel Nowacki**
Toledo, Ohio, USA

★ **Yuxin Ouyang**
Chengdu, China

★ **James Pan**
Cincinnati, Ohio, USA

★ **Dragan Vicovac Pantic**
North Royalton, Ohio, USA

★ **Trevor Alan Parks**
Columbus, Ohio, USA

★ **Brian Evan Joseph Parks**
Canal Whinchester, Ohio, USA

★ **Jared Grant Parsons**
Louisville, Ohio, USA

★ **Akash Mukesh Patel**
Hilliard, Ohio, USA

★ **Devin Bharat Patel**
Worthington, Ohio, USA

★ **Andrew James Pavlosky**
North Olmsted, Ohio, USA

★ **Tyler Joseph Pedelose**
Wheeling, West Virginia, USA

★ **Jayson Charles Perkins**
Pickerington, Ohio, USA

★ **Nicholas Arthur Ramage**
Columbus, Ohio, USA

★ **Tyler Edwin Rason**
Magna Cum Laude
Mount Vernon, Ohio, USA

★ **Emma Leigh Rastatter**
Chagrin Falls, Ohio, USA

★ **Gregory Evan Rogers**
Columbus, Ohio, USA

★ **Samuel Allen Rosenstein**
Columbus, Ohio, USA

★ **Spencer Alan Rudolph**
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Gates Mills, Ohio, USA

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Liberty Township, Ohio, USA

★ **Cameron Andrew Schmidt**
Worthington, Ohio, USA

★ **Derek Michael Schneider**
Cum Laude
Columbus, Ohio, USA

★ **Ryan Anthony Schneider**
Piqua, Ohio, USA

★ **Zachary Joseph Schuller**
Cum Laude
St. Peters, Missouri, USA

★ **Jinjin Shao**
Summa Cum Laude
HangZhou, China

★ **Umang Sandip Sharaf**
Cume Lade
Mumbai, India

★ **Samson Li Shi**
Cincinnati, Ohio, USA

★ **Kyle Joseph Shoaf**
Cincinnati, Ohio, USA

★ **Kevin Alan Smearsoll**
Stow, Ohio, USA

★ **Manlin Song**
Magna Cum Laude
Shijazhuang, China

★ **Kaitlyn Elizabeth Spehr**
Magna Cum Laude
Vandalia, Ohio, USA

★ **Zachary Brett Spieler**
Buffalo Grove, Illinois, USA

★ **Cody Lee Stammer**
Columbus, Ohio, USA

★ **Grant Edward Stenroos**
Bath, Ohio, USA

★ **Nathaniel William Stewart**
Magna Cum Laude
Mason, Ohio, USA

★ **Trevor John Stockert**
Pickerington, Ohio, USA

★ **Brandon Thomas Stone**
Columbus, Ohio, USA

★ **Phillip Wilberforce Stone**
Columbus, Ohio, USA

★ **Zachery Joseph Studer**
Larue, Ohio, USA

★ **Tatsumi Suenaga**
Dublin, Ohio, USA

★ **Alane Laughlin Suhr**
Summa Cum Laude with Honors in Engineering
The Plains, Ohio, USA

★ **Jiasong Sun**
Magna Cum Laude
Jiaxing, China

★ **Xiaowen Sun**
Magna Cum Laude
Dublin, Ohio, USA

★ **Matthew R. Swisher**
Mansfield, Ohio, USA

★ **Mark Eliseo Tareshawty**
Canfield, Ohio, USA

★ **Timothy Calvin Taylor**
Magna Cum Laude
Cincinnati, Ohio, USA

★ **Thomas James Tedrow**
Chicago, Illinois USA

★ **D. Aaron Telesman**
Cum Laude
Hudson, Ohio, USA

★ **Erik Frank Siegel Thiem**
Cleveland Heights, Ohio, USA

★ **Jordan Matthew Tillman**
Cum Laude
Dublin, Ohio, USA

★ **Gregory Evan Rogers**
Columbus, Ohio, USA

★ **Robert Walter Tishma**
Columbus, Ohio, USA

★ **Nicholas Adam Todd**
Magna Cum Laude
Liberty Township, Ohio, USA

★ **Chao Tong**
Beijing, China

★ **Michael Steven Trotto**
Lewis Center, Ohio, USA

★ **Bickramjit Singh Uppal**
Worthington, Ohio, USA

★ **Matthew Vaughn**
Newark, Ohio, USA

★ **Nathan James Wakefield**
Columbus, Ohio, USA

★ **Brandon Michael Walz**
Cum Laude
Centerville, Ohio, USA

★ **Chenyang Wang**
Beijing, China

★ **June Wang**
Magna Cum Laude
Columbus, Ohio, USA

★ **Grace L. Wannemacher**
Magna Cum Laude
Beavercreek, Ohio, USA

★ **Zachary A. Weil**
Redding, California, USA

★ **Michael Frederick Wenger**
Worthington, Ohio, USA

★ **Daniel Roy Whitacre**
Cum Laude
Cincinnati, Ohio, USA

★ **Daniel Briley White**
Powell, Ohio, USA

★ **Olivia Marie Whitman**
Columbus, Ohio, USA

★ **Christian Asataro Winterhalter**
Centerville, Ohio, USA

★ **Brian Wisniewski**
West Chester, Ohio, USA

★ **Hiroki Benhamin Witt**
Brunswick, Ohio, USA

★ **David Michael Wright**
Summa Cum Laude with Honors in Engineering
Sylvania, Ohio, USA

★ **Zijang Yang**
Nanjing, China

★ **Po Yao**
Columbus, Ohio, USA

★ **Matthew John Yohman**
Alexandria, Ohio, USA

★ **Holly Marie Yosua**
Honors in Engineering
Dayton, Ohio, USA

★ **Allen Ming Yu**
Cleveland, Ohio, USA

★ **YaYing Zhao**
Columbus, Ohio, USA

★ **Edward Zhu**
Katy, Texas, USA

★ **Michael Alan Zoller**
Magna Cum Laude with Honors in Engineering
Dayton, Ohio, USA

FACULTY, SCIENTISTS & STAFF

Tenured & Tenure Track Faculty

Gagan Agrawal
Full Professor

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

Department Research Area: SYSTEMS

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

Anish Arora
Full Professor

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

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

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

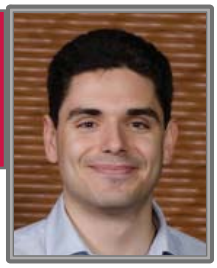
Mikhail Belkin
Associate Professor

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

Department Research Area: ARTIFICIAL INTELLIGENCE

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

Spyros Blanas
Assistant Professor



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

Department Research Area: SYSTEMS

Interests: Database Management Systems.

Michael Bond
Assiociate 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

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 K. Dey
Full Professor

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

Department Research Area: THEORY, GRAPHICS

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

Eric Fosler-Lussier
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
Assiociate Professor

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

Departmental Research areas: THEORY

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

Arnab Nandi
Assistant Professor

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

Department Research Area: SYSTEMS

Interests: 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

Luis Rademacher
Assistant Professor

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

Department Research Area: THEORY

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

Alan Ritter
Assistant Professor

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

Department Research Area: ARTIFICIAL INTELLIGENCE

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

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

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

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

P. (Saday) Sadayappan
Full Professor

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

Department Research Area: SYSTEMS

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

Han-Wei Shen
Full Professor

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

Department Research Area: GRAPHICS

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

Ness B. Shroff
Ohio Eminent Scholar of Networking and Communications Endowed Chair Professor

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

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

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

Anastasios Sidiropoulos
Assistant Professor

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

Department Research Area: THEORY

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

Prasun Sinha
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 and Associate Chairperson

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

Department Research Area: SOFTWARE ENGINEERING AND PROGRAMMING LANGUAGES

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

Kannan Srinivasan
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.

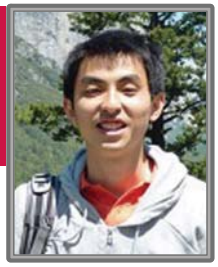
Huamin Wang
Assistant Professor

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

Department Research Area: GRAPHICS

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

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: SYSTEMS

Interests: Fault Tolerance; Large-scale Storage System; Correctness and Performance Debugging.

Yusu Wang
Associate Professor

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

Department Research Area: GRAPHICS

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

Rephael Wenger
Associate Professor

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

Department Research Area: GRAPHICS

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

Dong Xuan
Full Professor

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

Department Research Area: NETWORKING and DISTRIBUTED COMPUTING

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

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

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

Department Research Area: SYSTEMS, NETWORKING and DISTRIBUTED COMPUTING

Interests: Data Management in Computer and Distributed Systems

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

Emeritus Appointments

Professor Emeritus

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

Associate Professor Emeritus

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

Faculty Emeritus

James B. Randels

Courtesy Appointments

Ümit V. Çatalyürek	Professor and Vice Chair of Academic Affairs	Dept. of Biomedical Informatics
Kun Huang	Associate Professor	Dept. of Biomedical Informatics
Michael Knopp	Professor and Vice Chair of Research	Dept. of Radiology
Albert M. Lai	Assistant Professor	Dept. of Biomedical Informatics
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 Engineering & Geodetic Science

Clinical Faculty

Louis-Noel Pouchet

Research Assistant Professor

Engineering degree in Computer Science, EPITA, 2006; M.S. in Computer Science, University of Paris-Sud 11, 2006; Ph.D in Computer Science, INRIA / University of Paris-Sud 11, 2010.

Research Area: SYSTEMS

Research Interests: Compilers; High-Performance Computing; Software Systems; FPGAs.

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).

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. .

Lei Guo
Research Scientist

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

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

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.

Post-Doctorate Researchers

Dip Sankar Banerjee
Mickael Buchet
Jian Lin
Behrooz Omidvar-Tehrani
Andrew Plummer
Rajam Sukumaran
Xiaolei Zhang

Research Staff

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John M. Eisenlohr - Research Specialist
Khaled Hamidouche - Senior Research Assoiate
Jonathan L. Perkins - Systems Administrator

Lecturers

Gojko Babic
Senior Lecturer

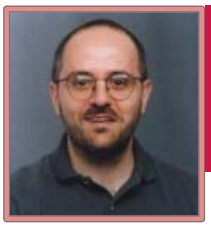
B.S., Electric Engineering, University of Sarajevo, 1972; M.S., Computer Science, Florida Institute of Technology, 1975; Ph.D., Computer Science, The Ohio State University, 1978.

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, 1997; M.S. Social Work, The Ohio State University, 1999.

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 Professors

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

Giovani Abuaitah
Thomas Bihari
Stephen Boxwell
Alan Cline
Robert Finn
Jihun Hamm
Roman Ilin
Janis Jones
Praveen Kumar
Scott Mills
Bhuvarahamur Narasimhan
Perumal N. Ramasamy
Alvin Stutz
Jason Van Hulse

Lecturers

Aaron Baxter
Michael H. Burkhardt
Moez Chaabouni
Christopher Domas
Krista Dombroviak
Clair Farris
Charles Giles
Stephen Gomori
Jason Goodman
Cindy L. Grimme
Shaikh Mohammed Zahid Hossain
Mark Jackson
Suribabu Jayant
Srinidhi Jayasuryan
Leon Jairo Madrid
William Thomas Martin
G. Beth McGrath
Catherine McKinley
Scott Mills
Stephanie S. Preston
Dauntrica Rodgers
Richard Wagner
Parker Wiksell

STAFF

Administrative Staff

Catrena Collins - Human Resources Generalist
Tamèra Cramer - Reception
Don Havard - Fiscal Officer
Michelle Janney - Travel Coordinator
Z. Lynn Lyons - Graduate Admissions and Graduate Studies Coordinator
Wendy Michel - Fiscal 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
Jeff Moser - Windows Administrator
Shaun Rowland - Senior Systems Developer / Engineer
Ted Welch - Systems Manager

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