



WOMEN IN DATA SCIENCE GREATER LAFAYETTE @PURDUE



Annapurni Subramaniam

*Administrator of Library Enterprise Applications,
Co-ambassador for WiDS Greater Lafayette @Purdue 2019
Purdue University.*

Annapurni Subramaniam has more than 20 years experience in the IT field with expertise in Software Engineering, Databases, and Data Analytics. Currently as the Library Enterprise Applications Administrator at the Purdue University Libraries and School of Information Studies, Annapurni is responsible for administration and support of Library Enterprise Applications, Staff training and Data Analytics for libraries in the West Lafayette campus. Additionally, she supports Purdue Northwest and Purdue Fort Wayne campus applications. She received an MS in Computer Science from University of Missouri-Rolla and M.Com from Bombay University.



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Dimple Dhawan

*Senior, Computer Science,
Co-ambassador for WiDS Greater Lafayette @Purdue 2019
Purdue University.*



Dimple is a senior at Purdue majoring in Computer Science and obtaining the Certificate of Entrepreneurship and Innovation. She can be found around campus working on her freelancing business with her cofounder, or looking for other fintech startups as an investment analyst for Plug and Play Tech Center. During her college career, she has contributed as a database developer for the Transportation program in the Civil Engineering department and a python developer for camera discovery on the CAM2 research project at Purdue. She has also had the opportunity to intern on Data Architecture, Data Governance and Devops teams of multiple companies. She also loves to network and cannot wait to meet you all!



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WELCOME

Dr. Sunil Prabhakar

*Director of the Integrative Data Science Initiative (IDSI)
Professor of Computer Science, Purdue University.*



Dr. Prabhakar received his Ph.D. in Computer Science from the University of California at Santa Barbara in 1998, and a B.Tech in Electrical Engineering from the Indian Institute of Technology, Delhi in 1990. Since August 1998, he has been with the Department of Computer Science at Purdue University. He previously served as the Department Head of Computer Science, and currently serves as the Director of the Integrative Data Science Initiative.

In his current role, Sunil represents the vision to be at the forefront of advancing data science-enabled research and education by coupling theory, discovery, and applications while providing students with an integrated, data science-fluent campus ecosystem.



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KEYNOTE

Dr. Jennifer Neville

Miller Family Chair and Associate Professor of Computer Science and Statistics, Purdue University.

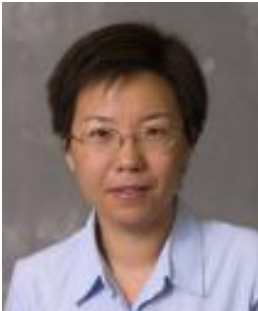


Dr. Jennifer Neville is the Miller Family Chair Associate Professor of Computer Science and Statistics at Purdue University. She received her PhD from the University of Massachusetts Amherst in 2006. She is currently an elected member of the AAAI Executive Council and is PC chair of the 19th SIAM International Conference on Data Mining. In 2016 she was PC chair of the 9th ACM International Conference on Web Search and Data. In 2012, she was awarded an NSF Career Award, in 2008 she was chosen by IEEE as one of "AI's 10 to watch", and in 2007 was selected as a member of the DARPA Computer Science Study Group. Her work, which includes over 100 peer-reviewed publications with more than 7000 citations, focuses on developing data mining and machine learning techniques for complex relational and network domains, including social, information, physical, and biological networks.



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SPEAKER



Dr. Min Zhang

Professor of Statistics, Purdue University.

Dr. Min Zhang received her first PhD in Neuroscience from Peking University Health Science Center and second PhD in Biological Statistics and Computational Biology from Cornell University. She is the Associate Director of Data Science at Purdue University Center for Cancer Research. Her current research focuses on developing new statistical methods for integrative analysis of clinical information and high dimensional omics data, such as genomics, transcriptomics and metabolomics data. These methods can be employed to understand the molecular basis of complex diseases, to predict drug responses, and ultimately to facilitate personalized medicine.



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SPEAKER



Dr. Nadia Lanman

*Research Assistant Professor of
Comparative Pathobiology
Manager of Purdue Collaborative Core for
Cancer Bioinformatics (C³B), Purdue
Center for Cancer Research,
Purdue University.*

Dr. Nadia Lanman is a research assistant professor in the department of Comparative Pathobiology and manager of the Purdue Collaborative Core for Cancer Bioinformatics (C³B) at the Purdue University Center for Cancer Research. Dr. Lanman received her BS in Biochemistry in 2011 and her PhD in Plant Molecular Biology with a certification in Computational Life Sciences from Purdue University in 2015. Dr. Lanman joined the Purdue Center for Cancer Research in June, 2015 and oversees the operation of the core at Purdue. She has performed a variety of analyses, including epigenomics, genomics, and transcriptomics. She is involved in projects focused on a variety of different types of cancer, including breast cancer, prostate cancer, leukemia, and pancreatic cancer. Dr. Lanman is particularly interested in identifying mechanisms for chemotherapy resistance using large NGS datasets and the integration of large-scale -omics datasets. The focus of Dr. Lanman's work is to apply computational techniques for the analysis of large datasets, with the ultimate goal of understanding the biological mechanisms involved in cancer disease and progression.



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SPEAKER



Dr. Jennifer Wisecaver

*Assistant Professor of Biochemistry and
Center for Plant Biology,
Purdue University.*

Dr. Jennifer Wisecaver is an assistant professor in the Biochemistry Department and Center for Plant Biology at Purdue University. Prior to coming to Purdue in 2017, she earned her doctorate at the University of Arizona in the Department of Ecology and Evolutionary Biology and was a National Plant Genome Postdoctoral Fellow at Vanderbilt University. Her research involves studying the birth, evolution, and death of ecologically specialized metabolic pathways in plants, fungi, and microbial eukaryotes using comparative genomics, coexpression networks, and phylogenetics.



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SPEAKER



Dr. Kendall Roark

*Assistant Professor of Library Science,
Purdue University Libraries & School of
Information Studies, Purdue University.*

Kendall Roark received her PhD in Anthropology from Temple University in 2012. She is currently an Assistant Professor of Library Science with the Purdue University Libraries & School of Information Studies, the co-founder of the Critical Data Studies Collaborative at Purdue, and the lead faculty for the 2019-2020 Critical Data Studies cohort of the Data Mine Learning Community. Dr. Roark is an applied anthropologist working at the intersection of information science, science & technology studies and anthrodesign. She has conducted ethnographic fieldwork with LGBTQ community volunteers in the American Southwest and health science researchers in Canada's western provinces, and has led participatory design projects for health research data catalogs and sharing platforms, community technology and open educational resources. Dr. Roark's broader research and teaching interests include feminist and decolonial approaches to science and technology studies, participatory and speculative research methodologies, data science research ethics and critical data studies.



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SPEAKER



Dr. Nicole Kong

*Associate Professor of Library Science,
Purdue University Libraries & School of
Information Studies,
Purdue University.*

Dr. Nicole Kong received her PhD in Ecology from Penn State University. She joined Purdue University Libraries and School of Information Studies from 2012 specialized in the area of geographic information. Her current research interests are in Geographic Information Systems (GIS), Geospatial data discovery, integration, visualization, management, and analysis. Dr. Kong currently serves as Chair of the GeoTech Committee, MAGIRT (Map & Geospatial Information Round Table) at the American Library Association. She is also the Education Board of Director for the Indiana Geographic Information Council (IGIC). Dr. Kong organizes GIS Day at Purdue, which connects Purdue students to cutting edge research and careers in GIS. Before joining Purdue, she worked as a Software Engineer and as the Lead GIS developer at Kentucky Transportation Cabinet.



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SPEAKER



Anisha Singhal

Co-Founder, thoughtAnalytik.

Anisha B Singhal is co-founder of a data science start up that is converging cloud, machine learning, and natural language processing to enable self- service platforms and tools for Data scientists and Citizen Data scientists. She is also working with start-up teams to bring benefits of data science for empowerment of individual as a person and as an employee. Additionally she is helping teams to bring data science for providing solutions in healthcare and agribusiness.

Anisha is an engineer by education and training. She has worked with global organizations in field of sensors and data and has been part of industries transitioning from analog to digital world. Passionate to bring use of data and related technologies, like IOT for increasing efficiency in machines, systems processes, and organizations. She has led large cross functional teams to design and develop innovative solutions for automation, control and safety of plants, efficiency management and predictive maintenance.



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Dr. Tsai-Wei Wu

*Data Visualization Specialist, Research Computing,
Purdue University.*

Tsai-wei Wu obtained her Ph.D. degree in computational optics from the Dept. of Electrical Engineering at University of Michigan, Ann Arbor. She joined the Plasma Physics Division of Naval Research Laboratory in Washington, D.C. working on the earth's ionosphere modeling. In late 2015, she started as a data visualization specialist at Research Computing of Purdue University. With a computational background, she has experiences in developing large scientific programs for advancing extreme-scale computation and exploring three-dimensional data visualization techniques. She has interests in many different levels of scientific computing, either implementing numerical algorithms, paralleling/optimizing distributed programs, analyzing/visualizing 3D data using VTK, Paraview and VISIT or even maintaining/administering large-scale computing clusters.



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SPEAKER



Dr. Ming Yin

*Assistant Professor of Computer Science,
Purdue University.*

Ming Yin is an assistant professor in the Department of Computer Science, Purdue University. Her research broadly connects to the fields of artificial intelligence and applied machine learning, computational social science, human-computer interaction and behavioral sciences. Ming designs and conducts large-scale online behavioral experiments to obtain a quantitative perspective on participants' behavior in social computing and crowdsourcing systems. Based on the empirical behavioral data, she further works on designing realistic models, novel algorithms and effective interfaces to facilitate the development of more intelligent and sustainable systems. Recently, she becomes interested in using experimental approach to understand how human interact with and trust machine learning systems.

Prior to Purdue, Ming spent a year at Microsoft Research New York City as a postdoctoral researcher in the Computational Social Science group. Ming completed her Ph.D. in Computer Science at Harvard University, and received her bachelor degree from Tsinghua University, Beijing, China.



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SPEAKER



Dr. Lin Tan

*Associate Professor of Computer Science,
Purdue University.*

Lin Tan is an Associate Professor of Computer Science at Purdue University. She received her PhD from the University of Illinois, Urbana-Champaign. One of her research focuses is on leveraging machine learning and natural language processing techniques to improve software dependability and using software engineering approaches to improve the dependability of machine learning software. She was the program co-chair of MSR 2017, ICSE-NIER 2017, and ICSME-ERA 2015. She is an associate editor of IEEE Transactions on Software Engineering (2017-present) and an editor of the Springer Empirical Software Engineering Journal (2015-present). Dr. Tan's co-authored papers have received an ACM SIGSOFT Distinguished Paper Award at MSR in 2018, FSE in 2016, and IEEE Micro's Top Picks in 2006. Dr. Tan was a recipient of Canada Research Chair, an NSERC Discovery Accelerator Supplements Award, an Ontario Early Researcher Award, an Ontario Professional Engineers Award — Engineering Medal for Young Engineer, two Google Faculty Research Awards, and an IBM CAS Research Project of the Year Award.



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PANELIST



Dr. Melba Crawford

Associate Dean of Engineering for Research, Professor of Civil Engineering, Electrical and Computer Engineering, Agronomy, Purdue University.

Dr. Melba Crawford holds the Chair of Excellence in Earth Observation at Purdue University, where she is the Associate Dean of Engineering for Research and a professor in the Schools of Civil Engineering and Electrical and Computer Engineering, and the Department of Agronomy. Her research interests focus on development of methods for signal and image processing, and applications of these algorithms to remote sensing problems in defense, agriculture, and natural resource management. She is currently co-leading a joint initiative between the Purdue colleges of agriculture and engineering in development of advanced sensing technologies and analysis methodology for wheeled and UAV platforms, focused on high throughput phenotyping for plant breeding.

Dr. Crawford is a Fellow of the IEEE, Past President of the IEEE Geoscience and Remote Sensing Society, an IEEE GRSS Distinguished Lecturer, and the current Treasurer of the IEEE Technical Activities Board. She was a member of the NASA EO-1 Science Validation team and served on the NASA Earth System Science and Applications Advisory Committee and the advisory committee to the NASA Socioeconomic Applications and Data Center (SEDAC).



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PANELIST

Dr. Jyothi Thimmapuram

*Bioinformatics Core Director,
Purdue University.*

Dr. Jyothi Thimmapuram oversees services provided by the Bioinformatics Core at Purdue University. Primary services provided are processing, analysis, trouble shooting and managing of Next Generation Sequencing data. She and her team have successfully established guidelines and protocols for data analyses of transcriptomic and genomic sequence data (including de novo assemblies and gene prediction and annotation), variant analysis (SNP and CNV), RNA-Seq, ChIP-Seq (bisulfite sequencing, MeDIP-Seq, MNase-Seq, histone modifications), small RNA, metagenomic and metatranscriptomic and phylogenomic analyses. She plays an active and vital role in many of the collaborative projects through data analysis, interpretation, and experimental protocol development. Her strength is the ability to communicate with both biologists and computer scientists on problems related to biological data.



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PANELIST



Joanna Grama

*Senior Consultant,
Vantage Technology Consulting Group.*

Joanna Grama has more than 15 years of experience in higher education with a strong focus in law, IT security policy, compliance, governance, and data privacy topics. Currently a senior consultant with Vantage Technology Consulting Group, Joanna is a member of the U.S.

Department of Homeland Security's Data Privacy and Integrity Advisory Committee and serves as the chairperson of its technology subcommittee. Joanna graduated from the University of Illinois College of Law and holds numerous information security and privacy certifications.



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PANELIST



Dr. Jennifer Neville

*Miller Family Chair and Associate Professor
of Computer Science and Statistics,
Purdue University.*

My research interests lie in the fields of machine learning and data mining. In particular, I focus on the development and analysis of algorithms for relational domains, including social, information, and communication networks, as well as physical networks and distributed systems. My work can be broadly categorized into: (1) design and implementation of machine learning and data mining techniques, (2) discovery of, and adjustment for, statistical biases due to networks data characteristics, and (3) application to real-world tasks.