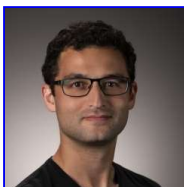# UCSB CE and CS Undergraduate Advising, Spring 2024.

Daniel Lokshtanov

Daniel Lokshtanov is a Professor of Computer Science at UCSB. He received his PhD in Computer Science (2009), from the University of Bergen. Lokshtanov spent two years (2010-2012) as a Simons Postdoctoral Fellow at University of California at San Diego, and 6 as a faculty at the Department of Informatics at the University of Bergen. His main research interests are in graph algorithms, parameterized algorithms and complexity. He is a recipient of the Meltzer prize, the Bergen Research Foundation young researcher grant, and of an ERC starting grant on parameterized algorithms. He is a co-author of the recent textbooks on Parameterized Algorithms and Kernelization.

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Wenbo Guo

Wenbo Guo is an Assistant Professor of the Computer Science Department at UCSB. He received his Ph.D. from Penn State and did his postdoc at UC Berkeley. His research interests are cybersecurity and trustworthy machine learning. He is a recipient of the IBM Ph.D. Fellowship (2020-2022), Facebook/Baidu Ph.D. Fellowship Finalist (2020), and ACM CCS Outstanding Paper Award (2018). His long-term research goal is to design effective and trustworthy machine-learning solutions for a wide range of security problems. His recent research includes designing foundation models for software and network security problems, building reinforcement learning-driven planning and scheduling systems for security problems, and improving the explainability and robustness of large models and reinforcement learning.

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Chandra Krintz

Chandra Krintz is a Professor in Computer Science. She received her Ph.D. from UC San Diego before joining the UCSB CS Department in 2001. She co-directs the Lab for Research on Adaptive Computing Environments (RACELab) and previously worked at AppScale. Her research interests include AI systems for the Internet of Things (IoT), Programming Systems, cloud computing and services, distributed systems and edge computing, embedded systems, and digital agriculture and technology.
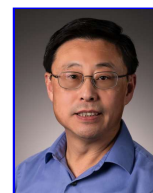
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Jianwen Su is a Professor in Computer Science. He received his PhD from the University of Southern California before joining the UCSB CS department in 1990. His research interests include database systems, services computing, and business process management. He is a member of th ACM and IEEE and has served or serves on committees of several conferences and journals.

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Tim Sherwood

Tim Sherwood is a Professor in the Department of Computer Science. Professor Sherwood joined the CS Department in 2003. He is the Associate Vice Chancellor for Research and the co-founder of Tortuga Logic. Professor Sherwood works on all manner of computer science and engineering problems from the perspective of how to better "shape" computers to address our needs (e.g. to be more secure or amenable to machine learning).

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Ziad Matni

Ziad Matni is an Assistant Teaching Professor in Computer Science. He received his PhD in Information Science from Rutgers University, where he also taught as an adjunct faculty member before joining UCSB. Before his work in academia, he held multiple engineering and management positions in the semiconductor, computer systems, and data communication industry for over a decade. He engages in research in CS education, computational social science, and in data & information science.

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Tevfik Bultan

Tevfik Bultan is a Professor and Chair of the Department of Computer Science. Professor Bultan joined the Department in 1998. His Ph.D. is from University of Maryland, College Park. His research interests include: dependability and security of web software, automated verification, program analysis, and software engineering. Professor Bultan's research group develops automated verification and analysis techniques that help developers in identifying and eliminating errors in software.

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Phillip Conrad

Phill Conrad joined the faculty of the CS Department in January 2008, and in July 2012 was promoted to Lecturer (SOE), a career-oriented position focusing on undergraduate education. Dr. Conrad's focus is the lower-division curriculum, however he often teaches CS156, the project-oriented course in Java and Javascript.

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Michael Beyeler

Michael Beyeler is an Assistant Professor in Computer Science. He directs the Bionic Vision Lab and is the Associate Director of the UCSB Center for Virtual Environments and Behavior (ReCVEB). He received a PhD in Computer Science from UC Irvine as well as a BS in Electrical Engineering and a MS in Biomedical Engineering from ETH Zurich, Switzerland. Prior to joining UCSB, he completed a postdoctoral fellowship in the labs of Ione Fine (Psychology, Institute for Neuroengineering) and Ariel Rokem (eScience Institute) at the University of Washington, where he developed computational models of bionic vision. He is the recipient of the National Institutes of Health (NIH) Pathway to Independence Award.

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Diba Mirza

Diba Mirza is an Associate Teaching Professor in the Department of Computer Science. She received her Ph.D. in Computer Engineering from the UC San Diego and joined the Computer Science department at UCSB in 2017. She worked as a post-doc on interdiscplinary projects in the department of Computer Science and the Scripps Institution of Oceanography at UC San Diego, where she developed underwater robotic swarms that can help scientists learn more about the ocean. She directs the Early Research Scholars Program (ERSP) which is designed to support students in their first research experience and co-directs the CS Undergraduate Learning Assistant Program.

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Giovanni Vigna

Giovanni Vigna is a Professor in the Department of Computer Science at the University of California in Santa Barbara. His current research interests include malware analysis, web security, vulnerability assessment, and mobile phone security. He also edited a book on Security and Mobile Agents and authored one on Intrusion Correlation. He has been the Program Chair of the International Symposium on Recent Advances in Intrusion Detection (RAID 2003), of the ISOC Symposium on Network and Distributed Systems Security (NDSS 2009), and of the IEEE Symposium on Security and Privacy in 2011. He is known for organizing and running an inter-university Capture The Flag hacking contest, called iCTF, that every year involves dozens of institutions around the world. He is a member of IEEE and ACM.

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Murphy Niu

Murphy Yuezhen Niu is an Assistant Professor and Stansbury Chair in Computer Science at the University of California, Santa Barbara since 2024. Previously, she was a senior research scientist in the Google Quantum AI team, where her work focused on intelligent quantum control optimization and metrology, quantum machine learning, quantum algorithm design and near-term quantum error correction. Niu received her doctorate in theoretical and mathematical physics from MIT in 2018. She received the Claude E. Shannon Research Assistantship for her work at the intersection of photonic quantum computation, quantum error correction and quantum cryptography. Professor Niu's long-term research goal is to develop quantum computing paradigms in regard to how we program, control, characterize, measure, and error correct a large-scale quantum computer without paying the steep price of digitization towards real-world impacts. Niu applies cutting-edge deep reinforcement learning and generative models to quantum control, quantum circuit compilation, and quantum system learning using some of the largest quantum computers based on superconducting qubits. Her recent research focus on developing scalable analog quantum control and algorithms for emerging quantum architectures with superconducting, ion trap, photonic, and neutral atom qubits.

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Misha Sra

Misha Sra is the John and Eileen Gerngross Assistant Professor and directs the Human-AI Integration Lab in the Computer Science department at UCSB. Misha received her PhD at the MIT Media Lab in 2018. She has published at the most selective HCI and VR venues such as CHI, UIST, VRST, and DIS where she received multiple best paper awards and honorable mentions. From 2014-2015, she was a Robert Wood Johnson Foundation wellbeing research fellow at the Media Lab. In spring 2016, she received the Silver Award in the annual Edison Awards Global Competition that honors excellence in human-centered design and innovation. MIT selected her as an EECS Rising Star in 2018. Her research has received extensive media coverage from leading media outlets (e.g., from Engadget, UploadVR, MIT Tech Review and Forbes India) and has drawn the attention of industry research, such as Samsung and Unity 3D.

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Yekaterina (Kate) Kharitonova

Dr. Yekaterina Kharitonova is an Assistant Teaching Professor in Computer Science. She obtained her PhD in Computer Science from the University of Arizona. Her research is in Computer Vision and Machine Learning. Specifically, her work focuses on multimedia processing and understanding, image correspondence, and effective image alignment through fitting geometric models.

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Maryam Majedi

Dr. Maryam Majedi joined the Department of Computer Science at the University of California, Santa Barbara, as an Assistant Teaching Professor in 2023. Dr. Majedi's research primarily revolves around Embedded Ethics and Data Privacy. She explores the intersection of computer science and ethical considerations, aiming to develop modules that facilitate the integration of ethics and data privacy principles into computer science education.

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