

# Undergraduate Advising, Fall 2021, UCSB Computer Science

## Chandra Krintz

Chandra Krintz is a Professor of Computer Science at the University of California, Santa Barbara (UCSB) and co-founder and Chief Scientist of AppScale Systems, Inc. She joined the UCSB faculty in 2001 after receiving her M.S. and Ph.D. degrees in Computer Science from the University of California, San Diego (UCSD). Professor Krintz's research is at the intersection of IoT, cloud computing, and data analytics with applications in farming, ranching, and ecology (cf SmartFarm and WTB).

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## Jonathan Balkind

Jonathan Balkind is an Assistant Professor of Computer Science at UCSB. He was previously a PhD Candidate in Computer Science at Princeton University. His research interests lie at the intersection of Computer Architecture, Programming Languages, and Operating Systems. He is the Lead Architect of OpenPiton and its heterogeneous-ISA descendent, BYOC, which are productive research platforms with thousands of downloads from over 70 countries worldwide.



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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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## Diba Mirza

Diba Mirza is an Associate Professor in the Department of Computer Science. She received her Ph.D. in Computer Engineering from the University of California, San Diego and joined the Computer Science department at UCSB in 2017. She co-directs programs in undergraduate tutoring, the ULA Program, and research, ERSP.

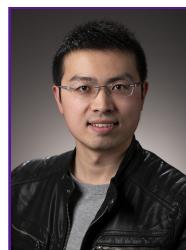


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## Lingqi Yan

Lingqi Yan is an Assistant Professor of Computer Science at UC Santa Barbara, co-director of the MIRAGE Lab, and affiliated faculty in the Four Eyes Lab. Before joining UCSB, Lingqi received his Ph.D. degree from the Department of Electrical Engineering and Computer Sciences at UC Berkeley. His research is in Computer Graphics. During his Ph.D. career, Dr. Yan mainly aimed at rendering photo-realistic visual appearance at real world complexity, building theoretical foundations mathematically and physically to reveal the principles of the visual world. He has brought original research topics to Computer Graphics, such as detailed rendering from microstructure, and real-time ray tracing with reconstruction.

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## Daniel Lokshtanov

Daniel Lokshtanov is an Associate 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](#).



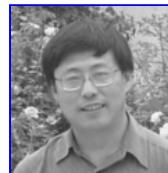
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## Undergraduate Advising, Computer Science, Fall 2021 (continued)

### Jianwen Su

Jianwen Su is a Professor in the Department of Computer Science. Professor Su joined the Department in 1990. His PhD is from USC. His research interests include: Database systems, theory, and applications.

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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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### Michael Beyeler

Michael Beyeler directs the Bionic Vision Lab at UC Santa Barbara. 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 Associate Director of the UCSB Center for Virtual Environments and Behavior (ReCVEB) and recipient of the National Institutes of Health (NIH) Pathway to Independence Award.

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### Divyakant Agrawal

Divyakant Agrawal is a faculty member in the Department of Computer Science at the University of California at Santa Barbara. His research expertise is in the areas of distributed systems and databases. Divyakant is a recipient of multiple NSF Grants for Projects related to Data Summarization, Hardware Acceleration, Database Operations, and Wireless Sensor Networks. He is a senior member of IEEE and ACM, and has received the Distinguished Scientist award from ACM in 2010.



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### Amr El Abbadi

Amr El Abbadi is a Professor in the Department of Computer Science. Professor El Abbadi joined the Department in 1987. His Ph.D. is from Cornell University. His research interests include: Fault-tolerant distributed systems; Distributed Databases, Operating Systems, Cloud, and Social Networks.

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### John Gilbert

John Gilbert is a Professor in the Department of Computer Science. John's research interests are in combinatorial scientific computing, high-performance graph algorithms, tools and software for computational science and engineering, and numerical linear algebra. He has done fundamental work in sparse matrix techniques; he was a primary architect and developer of Matlab's sparse matrix capability and of the SuperLU solver library.



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### Ben Hardekopf

Ben Hardekopf is an Associate Professor of Computer Science at the University of California, Santa Barbara, where he leads the Programming Languages Research Laboratory. Professor Hardekopf's main research area is Programming Languages, investigating programming language design, analysis, and implementation.

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### Subhash Suri

Dr. Subhash Suri is a Professor in the Department of Computer Science. Dr. Suri joined the Department in 2000. His PhD is from Johns Hopkins University. His research interests include: algorithms, networked sensing, data streams, computational geometry, and game theory.



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## Prabhanjan Ananth

Prabhanjan Ananth is the Glenn and Susanne Culler Chair Assistant Professor in CS. His Ph.D. is from UCLA and he spent two years at MIT as a postdoc before joining UCSB in 2019. His research is in classical and (post-)quantum cryptography.

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## Lei Li

Lei Li is an Assistant Professor in CS. Before joining UCSB, he directed the ByteDance AI Lab, the company behind TikTok and other prominent Chinese apps that use an AI-powered recommendation algorithm to provide personalized user experiences. He develops scalable algorithms that learn and mine knowledge from data, and is particularly interested in natural language processing, machine translation, and AI drug discovery.



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## Shiyu Chang

Shiyu Chang is an Assistant Professor in CS. His research centers on machine learning and its applications in natural language processing and computer vision. His recent focus has been studying how machine predictions can be made more interpretable to humans and how human intuition and rationalization can improve AI transferability, data efficiency, and adversarial robustness. Before joining the Computer Science Department, he was a research scientist at the MIT-IBM Watson AI Lab. He received his BS and PhD from the University of Illinois at Urbana-Champaign.

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## Eric Vigoda

Eric Vigoda is a Professor in CS. Before coming to UCSB in 2021, he was at the Georgia Institute of Technology, where he served as the Director of the Algorithms and Randomness Center (ARC). Since finishing his Ph.D. at Berkeley in 1999, he has also had appointments at Chicago, Edinburgh, Weizmann, and KAIST. His research is in theoretical computer science, especially Markov chain methods and randomized algorithms.



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## Rich Wolski

Rich Wolski is a Professor in the Department of Computer Science and co-founder of Eucalyptus Systems Inc. Professor Wolski joined the department in 2001. His Ph.D. degree is from the University of California at Davis. Professor Wolski has led several national scale research efforts in the area of distributed systems and is the progenitor of the Eucalyptus open source cloud project. His research explores ways in which the ubiquitous proliferation of high-performance network connectivity can be used to foster new distributed computing capabilities and systems.

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