

UC San Diego

# **Welcome New Faculty**

October 14, 2014



# Matthew Alford

Professor

Scripps Institution of Oceanography

New Faculty 7/1/14

- Ph.D., Scripps Institution of Oceanography
- Research: Global distribution of internal wave-driven turbulence and mechanisms by which internal waves are generated, propagate and dissipate
- Prior to UC San Diego, Principal Oceanographer, Applied Physics Laboratory, University of Washington (UW) and Associate Professorship, School of Oceanography, UW
- Currently Observational Physical Oceanographer in the Marine Physical Laboratory, Scripps Institution of Oceanography



# Abigail Andrews

Assistant Professor  
Sociology  
New Faculty 7/1/14

- Ph.D. in Sociology, UC Berkeley
- Research: Dissertation examined political conditions and social consequences of contemporary labor migration from Mexico to United States, articles based on research published in *Gender & Society* and *Journal of Contemporary Ethnography*
- Awards from American Sociological Association sections on gender, political sociology, international migration, development, and racial and ethnic minorities
- Published several papers about power dynamics within transnational social movements, and co-author of book that uses gender theory to inspire a critical approach to sociology



# Richard Averitt

Professor

Physics

New Faculty 1/1/14

- Ph.D. in Applied Physics, Rice University
- Research: Terahertz frequency range, ultrafast spectroscopy with and without use of metamaterials to enhance field densities
- Prior to UC San Diego, faculty member at Boston University, permanent staff member/Thrust Leader, Los Alamos National Laboratory
- Herschel M. Rich Invention Award (1993, 1998); Robert A. Welch Foundation Predoctoral Fellow (1994); Los Alamos National Laboratory Director's Postdoctoral Fellowship (1999); DARPA Young Faculty Award (2008); Active Terahertz Metamaterial Devices (2010)



# Vikas Bansal

Assistant Professor

Pediatrics

New Faculty 5/1/14

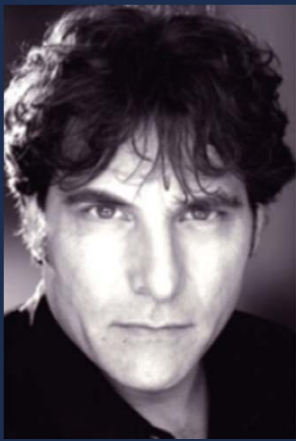
- Ph.D. in Computer Science & Engineering, UC San Diego
- Research: Developing computational methods to detect and analyze variations in human genetics in order to study diseases using high throughput sequencing
- Principal Investigator on National Institutes of Health grant, leading the investigation in a collaborative study to identify rare variants associated with type 2 diabetes using genetic sequencing
- Prior to UC San Diego, Research Scientist at Scripps Translational Science Institute



# Julio Barreiro

Assistant Professor  
Physics  
New Faculty 5/12/14

- Ph.D. in Physics, University of Illinois, Urbana-Champaign
- Research: AMO - Atomic, Molecular and Optical physics, exceptionally broad area of research with subfields focusing on physics of photons, trapped ions and optical lattices of ultra-cold atoms
- Prior to UC San Diego, Marie-Curie Postdoctoral Fellow, and postdoc at Max Planck Institute for Quantum Optics, Munich



# Marco Barricelli

Professor

Theatre & Dance

New Faculty 7/1/14

- Graduate of The Julliard School, honorary MFA American Conservatory Theatre; lead actor/member - Oregon Shakespeare Festival (1985-1993); Associate Artist - American Conservatory Theatre, San Francisco (1997-2005); Artistic Director-UC Santa Cruz-based Shakespeare Santa Cruz (2007-13)
- Currently Co-Artistic Director-Santa Cruz Shakespeare
- Dedicated and masterful theatre-maker whose range extends from classical repertoire to contemporary to television, with a significant career as an artistic director



# Julie Burelle

Assistant Professor  
Theatre & Dance  
New Faculty 7/1/14

- Ph.D., Joint Program in Drama & Theatre, UC San Diego and UC Irvine
- Research: First Nations sovereignty, cultural identity and nationhood negotiated through performances in the particular context of Quebec, a province whose national aspirations have often occupied center stage
- Work presented in multiple international settings and published in *TheatreForum* as well as in the book *Theatres of Affect* edited by Erin Hurley; served as a dramaturg for plays (*The Robbers* and *Kasimir and Karoline*), for dance projects (*Les Noces*), and for documentary films (*Québécoise*)





# Thomas Bussey

Lecturer (PSOE)

Chemistry & Biochemistry

New Faculty 7/1/14

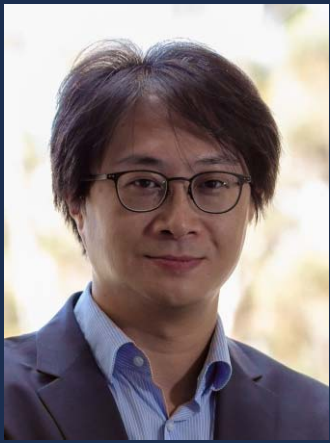
- Ph.D. in Chemistry, University of Nevada, Las Vegas (UNLV)
- Research: Visual literacy in science, students' ability to comprehend and learn from visual representations of science, i.e., illustrations and animations
- Distinguished Educator Award (2009), UNLV Outstanding Graduate Student Teaching Award (2013)
- Prior to UC San Diego, Visiting Assistant Professor of Chemistry, UNLV



# Jiun-Shyan Chen

Professor & William Prager Endowed Chair  
Structural Engineering  
New Faculty 11/1/13

- Ph.D. in Theoretical and Applied Mechanics, Northwestern University
- Research: Applied mechanics specializing in computational mechanics, including finite element methods and mesh-free methods
- Prior to UC San Diego, Professor/Chair, Dept. of Civil and Environmental Engineering, UC Los Angeles
- Computational Mechanics Award, International Association for Computational Mechanics; Board of Governors, Engineering Mechanics Institute; Executive Council Member, International Association for Computational Mechanics



# Yi Chen

Assistant Professor  
Nanoengineering  
New Faculty 7/1/14

- Ph.D. in Chemistry, Purdue University
- Research: Engineering DNA nanostructure-based artificial biologic systems for biomedical applications
- 2 patents, 3 book chapters, and over 26 peer-reviewed publications, several in prestigious journals *Nature*, *Nature Nanotechnology*, *Angewandte Chemie International Edition* and *JACS*
- Prior to UC San Diego, Postdoctoral Associate, David H. Kohn Institute for Integrative Cancer Research, MIT



# Ezra Cohen

Professor

Medicine

New Faculty 4/1/14

- M.D., University of Toronto Medical School
- Research: Head, neck, thyroid, and salivary gland cancers
- Prior to UC San Diego, Associate Professor of Medicine, University of Chicago Comprehensive Cancer Center, Co-Director, Head and Neck Cancer Program, Hematology/Oncology Fellowship Director, and Associate Director for Education
- Will serve as Associate Director, Solid Tumor Translational Research and Co-Leader, Solid Tumor Therapeutics Program, UC San Diego Moores Cancer Center



# Shana Cohen

Assistant Professor  
Education Studies  
New Faculty 7/1/14

- Ph.D. in Special Education, UC Berkeley
- Postdoctoral Fellowship at UC Riverside SEARCH Family Autism Resource Center
- Research: Explores barriers that immigrant families face in accessing early education for their children with autism spectrum disorders; studies social, political and historical contexts that may impact Mexican-immigrant families' childrearing goals and practices, and how such practices shape children's developmental outcomes
- Has worked as a clinician, educator and advocate for immigrant Latino children with disabilities and their families



# Kimberly Cooper

Assistant Professor

Cell & Developmental Biology

New Faculty 11/1/13

- Ph.D. in Molecular and Cellular Biology, University of Washington, Fred Hutchinson Cancer Research Center
- Postdoctoral Fellow at Harvard Medical School, Department of Genetics
- Research: Embryology, cell biology, quantitative microscopy, high throughput sequence analysis, and mouse genetics in an integrative approach to understand developmental mechanisms at tissue and genome level
- Ruth L. Kirschstein National Research Service Award, Harvard Medical School



# Richard Daneman

Assistant Professor

Pharmacology & Neurosciences

New Faculty 5/5/14

- Ph.D. in Developmental Biology, Stanford University
- Bioscience Graduate Education Award for Excellence in Teaching, Stanford University School of Medicine
- Research: Investigates regulation of blood-brain barrier and impact of neurological diseases such as stroke or multiple sclerosis, with goal to develop new forms of treatment
- Prior to UC San Diego, UC San Francisco Sandler Fellows Program, founded own research group, acting as Principal Investigator



# Cristina Della Coletta

Dean, Division of Arts & Humanities

Chancellor's Associates Endowed Chair in  
Italian Literature, New Faculty 8/15/14

- Ph.D. in Italian, UC Los Angeles
- Research: Contemporary Italian literature, historical fiction, film and cultural studies, women's studies and use of technology in humanities
- Prior to UC San Diego, Associate Dean of Humanities and the Arts, and Professor of Italian, College and Graduate School of Arts and Sciences, University of Virginia, served as Director of Undergraduate Program in Italian and Associate Chair of Department of Spanish, Italian and Portuguese
- Award-winning author of 3 books: *When Stories Travel: Cross-Cultural Encounters Between Fiction and Film* (2012), *World's Fairs Italian-Style: The Great Expositions in Turin and Their Narratives* (2006), and *Plotting the Past: Metamorphoses of Historical Narrative in Modern Italian Fiction* (1996)





# Aaron Drews

Lecturer (PSOE)  
Nanoengineering  
New Faculty 7/1/14

- Ph.D. in Chemical Engineering, Pennsylvania State University
- University Graduate Fellowship, Air Products Graduate Fellowship, Chemical Engineering Teaching Fellowship
- Research: Ratcheted contact charge electrophoresis as a novel means to rapidly and efficiently transport conductive particles in microfluidic channels
- Collaborated with Whitesides Group, Harvard University, as part of DARPA-led effort to extinguish flames via electric fields, a method which utilized so-called fire fighting "wands"



# Thomas Erbe

Lecturer (SOE)

Music

Ladder Rank Faculty Series Change 7/1/14

- Ph.D. in Computer Science and Music, University of Illinois, Urbana-Champaign
- In addition to his award-winning and widely used program SoundHack, recently developed 2 new Eurorack synthesizer processors: Echophon-a pitch-shifting delay line and Erbe-Verb-a modulated reverb processor
- Technical Director, Center for Contemporary Music, Mills College (1987-1993). In 1993, joined faculty as Studio Director, School of Music, and Director, Center for Experiments in Arts, Information, and Technology, California Institute of the Arts.



# Stephanie Fraley

Assistant Professor  
Bioengineering  
New Faculty 7/1/14

- Ph.D. in Chemical and Biomolecular Engineering, Johns Hopkins University
- Research: Developing cutting-edge technologies to explore complex interactions of human and bacterial cells with each other and with their physical environment of three-dimensional tissue structures in cancer and sepsis
- Prior to UC San Diego, Postdoctoral Fellow in Emergency Medicine, Johns Hopkins School of Medicine, where she developed novel approaches to enable detection of bacterial cells and human immune response in clinical cases of sepsis



# Wenxian Fu

Assistant Professor/In Residence  
Pediatrics  
New Faculty 12/5/13

- M.D. and Ph.D. in Immunology, Peking University
- Postdoctoral Fellowship, Harvard Medical School
- Research: Identifying, preventing, and regulating type 1 diabetes
- ADA-Takeda Postdoctoral Fellowship (2007), American Diabetes Association; Schuyler Pierce Memorial Fellowship (2011), Harvard Medical School; Harvard Chinese Life Science Distinguished Research Award (2013)



# Pascal Gagneux

Professor

Cellular & Molecular Medicine

Ladder Rank Faculty Series Change 12/5/13

- Ph.D., University of Basel, Basel, Switzerland
- Research: Evolution of cell-surface glycans from mechanisms of cellular recognition to effects on organismal interaction
- Associate Director, Center for Academic Research and Training in Anthropogeny



# Sarah Giddings

Assistant Professor

Scripps Institution of Oceanography

New Faculty 11/1/13

- Ph.D. in Civil and Environmental Engineering, Stanford University
- Research: Environmental fluid mechanics and coastal oceanography, particularly in hydrodynamics of estuaries and coastal ocean and how physics influences biological and chemical processes
- Prior to UC San Diego, Postdoctoral Research Associate, University of Washington, followed with National Science Foundation Ocean Sciences Postdoctoral Fellowship



# Jay Giedd

Professor, Psychiatry

Chief, Child & Adolescent Psychiatry

New Faculty 8/18/14

- M.D., University of North Dakota Medical School
- Research: Neurobiology of mental disorders and development of adolescent brain
- Prior to UC San Diego, Chief, Brain Imaging Section, Child Psychiatry Branch, National Institutes of Mental Health, and Adjunct Professor, Dept. of Population, Family and Reproductive Health, Johns Hopkins Bloomberg School of Public Health
- Blanche F. Ittleson Award (2013), Society for Neuroscience Science Educator Award (2012)



# Mattie Harper

Assistant Professor  
Ethnic Studies  
New Faculty 7/1/14

- Ph.D. in Ethnic Studies, UC Berkeley
- Research: Great Lakes region of North America, U.S. settler colonialism, and Native American women and gender; questions about construction of race and gender, Native American identity formation, and cross-cultural encounters in late eighteenth and nineteenth centuries
- Prior to UC San Diego, University of California President's Postdoctoral Fellow, UC Santa Cruz; Charles Eastman Fellow of Native American Studies, Dartmouth College





# Ryan Hechinger

Associate Professor

Scripps Institution of Oceanography

New Faculty 7/1/14

- Ph.D. in Ecology, Evolution & Marine Biology, UC Santa Barbara
- Research: Ecology and evolution of marine parasites, role of parasites in marine ecosystems, particularly coastal wetlands of California and Baja California
- Prior to UC San Diego, Associate Research Biologist, Marine Science Institute, UC Santa Barbara



# Alisa Huffaker

Assistant Professor

Cell & Developmental Biology

New Faculty 7/1/14

- Ph.D., Washington State University
- As a graduate student, characterized very first known plant peptide signal that activates anti-microbial defenses
- Research: Plant peptide signals that control a wide variety of plant defense responses against both pathogens and herbivores
- Prior to UC San Diego, Research Plant Physiologist, USDA-ARS Center for Medical, Agricultural and Veterinary Entomology, Gainesville, Florida



# Daniel M. Kane

Assistant Professor

Computer Science & Engineering

New Faculty 7/1/14

- Ph.D. in Mathematics, Harvard University
- Research: Mathematics and theoretical computer science, particularly in areas of combinatorics, number theory, derandomization and Boolean functions
- Prior to UC San Diego, three year postdoc in Mathematics Department, Stanford University, with support of NSF postdoctoral research fellowship
- Published papers on topics such as algorithms for big data, results on writing numbers as sums of primes, and structure of polynomials in many variables



# Lane Kenworthy

Professor & Yankelovich Endowed Chair in  
Social Thought, Sociology  
New Faculty 7/1/14

- Ph.D. in Sociology, University of Wisconsin
- Research: Causes and consequences of living standards, poverty, inequality, mobility, employment, economic growth, social policy, taxes, public opinion, and politics in United States and other affluent countries
- Prior to UC San Diego, Professor, Sociology and Political Science, University of Arizona
- Author of five books: *Social Democratic America* (2014), *Progress for the Poor* (2011), *Jobs with Equality* (2008), *Egalitarian Capitalism* (2004), *In Search of National Economic Success* (1995)



# Andrea LaCroix

Professor, Epidemiology

Director, Women's Health Center

New Faculty 10/1/13

- Ph.D. in Epidemiology, University of North Carolina, Chapel Hill
- Research: Identification of behavioral, pharmaceutical, biomarker, and genetic factors related to development of chronic diseases including cancer, cardiovascular disease, and fracture outcomes, specializing in health of postmenopausal and older women
- Prior to UC San Diego, Women's Health Initiative Clinical Coordinating Center, Fred Hutchinson Cancer Research Center, Public Health Sciences Division; faculty member, University of Washington; Senior Scientific Investigator, Group Health Research Institute



# Stanley Lo

Lecturer (PSOE)

Cell & Developmental Biology

New Faculty 8/1/14

- Ph.D., Harvard University
- Postdoctoral Scholar, Weill Cornell Medical College
- Research: Biology and STEM education, from faculty and curriculum development to student learning
- Prior to UC San Diego, Curriculum Development Specialist, Senior Research Associate, Lecturer, Northwestern University; Assistant Director, Northwestern University Ventures in Biology Education



# Elizabeth Lyons

Assistant Professor

International Relations & Pacific Studies

New Faculty 7/1/14

- Ph.D. candidate in Strategic Management, University of Toronto, Rotman School of Management
- Research: Focuses broadly on the intersection of technology and innovation strategy, economic development, and behavioral economics, with labor and entrepreneurship as common underlying themes
- Dissertation: “The Organization of Online Outsourcing: Observational and Field Experimental Studies”
- Doctoral Fellowship, Joseph L. Rotman School of Management, 2009 to present, Massey College Junior Fellowship, 2009-2011



# Prashant Mali

Assistant Professor  
Bioengineering  
New Faculty 7/1/14

- Ph.D. in Biomedical Engineering, Johns Hopkins University
- Siebel Scholar Award (2011), Burroughs Wellcome Career Award at the Scientific Interface (2014), co-founder of life sciences startup eGenesis Inc.
- Research: Regenerative medicine; developed range of key genome and stem cell engineering methodologies; pioneered development of CRISPR/Cas systems for eukaryotic genome engineering that was recognized as top scientific breakthrough by Science (2013)
- Prior to UC San Diego, Postdoctoral Fellowship in Department of Genetics, Harvard Medical School





# Julian McAuley

Assistant Professor  
Nanoengineering  
New Faculty 7/1/14

- Ph.D. in Computer Science, Australian National University
- Research: Developing machine learning approaches for study of social systems and modeling people's behavior online, in terms of their linguistic, temporal and social dimensions
- Postdoctoral Scholar, Stanford University



# Kerry McKenzie

Assistant Professor  
Philosophy  
New Faculty 7/1/14

- Ph.D., University of Leeds, England
- Research: Metaphysics of science and in particular how high-energy physics impacts upon traditional philosophical questions concerning fundamental reality and ways in which that reality is constrained
- Postdoctoral Fellowship in Logic and Philosophy of Science, University of Calgary, Canada
- Postdoctoral studies in Philosophy and Science, University of Western Ontario



# James McKerrow

Dean, Skaggs School of Pharmacy &  
Pharmaceutical Sciences  
New Faculty 7/1/14

- Ph.D. in Biology, UC San Diego; M.D., SUNY Stony Brook
- Research: Neglected tropical diseases, natural product research, and drug discovery and development
- Prior to UC San Diego, Professor, Pathology, and Director, Center for Discovery and Innovation in Parasitic Diseases, UC San Francisco; Vice Chair, Research and Education, Department of Pathology (2003-2012)
- Co-authored more than a dozen book chapters, published more than 250 articles, teaching awards spanning over two decades at UCSF to Gregor Mendel Honorary Medal, Academy of Sciences of the Czech Republic, to 2005 Distinguished Alumnus Award, SUNY, Stony Brook



# Karen Messer

Professor

Family & Preventative Medicine

Ladder Rank Faculty Series Change 7/1/14

- Ph.D. in Mathematics, UC San Diego
- Research: Design and analysis of cancer-related studies, ranging in scale from large “omics” data sets to small Phase II trials
- Chief, Division of Biostatistics and Bioinformatics
- Director, Biostatistics / Bioinformatics Shared Resource, UC San Diego Moores Cancer Center



# Justin Meyer

Assistant Professor

Ecology, Behavior & Evolution

New Faculty 7/1/14

- Ph.D. in Zoology and Ecology, Evolutionary Biology and Behavior, Michigan State University
- Research: Combines experimental evolution with new technology developed in fields of synthetic and systems biology to test hypotheses on evolution of viruses
- Prior to UC San Diego, Systems Biology Departmental Fellow, Harvard Medical School; James S. McDonnell Foundation's Postdoctoral Fellowship Award in Studying Complex Systems, Harvard Medical School



# Mia Minnes

Lecturer (PSOE)

Computer Science & Engineering

Ladder Rank Faculty Series Change 7/1/14

- Ph.D. in Mathematics, Cornell University
- Research: Theory of computation, algorithms, randomness; overlap of math and computer science, and writing in discipline
- Outreach efforts to broaden participation/success in STEM fields, Summer Program for Incoming Students in CSE as well as NSF and MAA funded MathDL Mathematical Communication Library
- Prior to UC San Diego, postdoctoral positions as CLE Moore Instructor at MIT (2008-10) and SE Warschawski Visiting Assistant Professor at UC San Diego (2010-14)



# Daisuke Miyao

Professor & Hajime Mori Endowed Chair in  
Japanese Language & Literature  
New Faculty 7/1/14

- Ph.D. in Cinema Studies, New York University
- Postdoctoral Fellowships, Columbia University, UC Berkeley
- Internationally recognized authority in field of cinema studies, and Japanese cinema in particular, especially renowned for research on cinematic production, transnational relations in history of cinema, and aesthetics in a transnational frame
- Best book in history award, Association of Asian American Studies (2009), *Sessue Hayakawa: Silent Cinema and Transnational Stardom* (Duke University Press, 2007)
- Prior to UC San Diego, ACLS/SSRC/NEH International and Area Studies Fellowship



# Eran Mukamel

Assistant Professor  
Cognitive Science  
New Faculty 7/1/14

- Ph.D. in Physics, Stanford University
- Awarded Gatsby COSYNE Fellowship (2010)
- Research: Computational analysis of large-scale neural data, electrophysiology of sleep and general anesthesia, computational epigenomics in brain cells
- Prior to UC San Diego, Postdoctoral Fellow in Computational Neuroscience, Salk Institute and Center for Theoretical Biological Physics, UC San Diego; Swartz Postdoctoral Fellow in Theoretical Neuroscience, Center for Brain Science, Harvard University (2009-11)





# Jacobo Myerston

Assistant Professor  
Literature  
New Faculty 7/1/14

- Ph.D. in the Program in the Ancient Mediterranean World, University of Chicago
- Fulbright Foreign Student Program Scholarship, Ephron Fellowship, University of Chicago Century Fellowship
- Wide-ranging intellectual interests in Classics, comparative religion, archeology, classical philology, Latin American literature, and digital humanities
- Instructor at Universidad de los Andes, University of Chicago and in The Odyssey Project

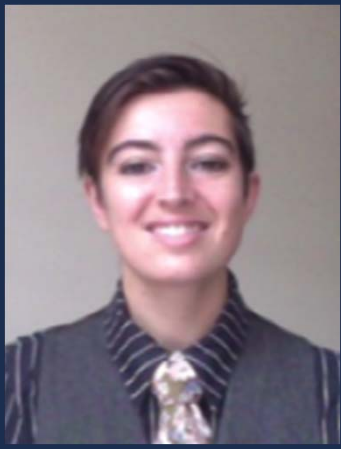


# Quyen Nguyen

Associate Professor  
Surgery

Ladder Rank Faculty Series Change 11/1/13

- Combined M.D./Ph.D., Washington University School of Medicine
- Research: Use of molecular fluorescence imaging to guide surgeons in tumor surgery, allowing surgeons to see margin between tumor and normal tissue in real time during surgery
- Clinical expertise in otology and neurotology/skull base surgery, evaluation and medical/surgical treatment of problems related to ear, including exostosis (“surfer’s ear”), tympanic membrane perforations, ossicular chain problems, otosclerosis, cholesteatoma, single-sided deafness, Ménière’s disease and acoustic neuromas



# Sarah Nicolazzo

Assistant Professor  
Literature

New Faculty 7/1/14

- Ph.D. in Comparative Literature and Theory, University of Pennsylvania
- Josephine de Karman Dissertation Fellowship; Mellon Graduate Research Fellowship; Presidential Prize Fellowship at University of Pennsylvania, and Centennial Scholar at Barnard College (2002-05)
- Research: Race theory, disability studies, critical gender studies, and trans-Atlantic studies
- Instructor, graduate fellow, TA Trainer, University of Pennsylvania's Center for Teaching and Learning



# Alvaro Pelayo

Associate Professor  
Mathematics  
New Faculty 7/1/14

- Ph.D. in Mathematics, University of Michigan
- NSF Postdoctoral Fellowship, MIT (2007-08) and UC Berkeley concurrently (2008-10)
- Research: Geometric analysis, dynamical systems, spectral geometry, and symplectic geometry
- Prior to UC San Diego, recognized as rising star in his field as Assistant Professor, Washington University



# Keith Pezzoli

Lecturer (SOE), Communication

Director, Urban Studies & Planning

Ladder Rank Faculty Series Change 7/1/14

- Ph.D. in Urban and Regional Planning, UC Los Angeles
- Research: Sustainability science and how human-nature relations interact in the development of cities and regions around the world
- Saltman Distinguished Teaching Award, American Planning Association Academic Leadership Award, and Environmental Professionals Association Information Technology Award
- Center for U.S.-Mexican Studies Visiting Research Fellow, UC San Diego (1988); USP lecturer/academic coordinator (1989-2014), since 2000; leading Community Engagement and Research Translation efforts of UC San Diego's Superfund Research Center funded by National Institute of Environmental Health Sciences (NIEHS)



# Anne Pommier

Assistant Professor

Scripps Institution of Oceanography

New Faculty 7/1/14

- Ph.D., Institut des Sciences de la Terre d'Orléans, University of Orléans, France
- Research: Physical and chemical properties of magmas and their role in formation and evolution of terrestrial planets
- Developing Planetary Experimental Petrology Laboratory (PEPL) at Scripps, also Visiting Scientist, Lunar and Planetary Institute, USRA, Houston



# George Porter

Assistant Professor

Computer Science & Engineering

Ladder Rank Faculty Series Change 7/1/14

- Ph.D. in Computer Science, UC Berkeley
- Research: Design, construction and analysis of large-scale networked systems that exemplify modern datacenter-oriented computing, i.e., systems that power large consumer facing services such as Google, Facebook and large-scale data mining and analytics applications
- Associate Director, Center for Network Systems, UC San Diego; recipient of Google Focused Research Award and NetApp Faculty Fellowship



# Leo Porter

Lecturer (PSOE)

Computer Science & Engineering

New Faculty 7/1/14

- Ph.D. in Computer Science Architecture, UC San Diego
- Research: Since 2011, computer science education, best known for work on Peer Instruction in computer science
- Best Paper Award in computer architecture, two Best Paper Awards in computer science education
- Prior to UC San Diego, Assistant Professor Skidmore College; veteran of Operation Iraqi Freedom, Surface Warfare Office, US Navy Pacific Fleet 2000-2004





# Ravi Ramamoorthi

Professor

Computer Science & Engineering

New Faculty 7/1/14

- Ph.D. in Computer Science, Stanford University
- Research: Computer graphics and computer vision, and digitally recreating or rendering the complexity of natural appearance
- Green Prize for Creative Scholarship at CA institute of Technology (1997), ACM SIGGRAPH Significant New Researcher Award, PECASE (2008)
- Prior to UC San Diego, UC Berkeley from 2009-2014, Columbia University from 2002-2008



# Tariq Rana

Professor

Pediatrics

Ladder Rank Faculty Series Change 5/16/14

- Ph.D. in Chemistry, UC Davis
- American Cancer Society Fellow, UC Berkeley
- Research: RNA regulation of development and disease, regulation of cellular processes by RNA during creation of induced pluripotent stem cells (iPSC), in stem cell differentiation and fate decisions, and in various disease states, to develop small molecule and RNA-based therapeutics
- Director, RNA Biology Program, Sanford-Burnham Medical Research Institute; Research Career Award (1996), National Institutes of Health



# Padmini Rangamani

Assistant Professor

Mechanical & Aerospace Engineering

New Faculty 7/1/14

- Ph.D. in Biological Sciences, Icahn School of Medicine, Mt. Sinai
- Presidential Postdoctoral Fellowship, UC Berkeley, Zeigler Award, School of Chemical & Biomolecular Engineering, Georgia Institute of Technology
- Research: Understanding design principles of biological systems, long-term goal to understand control of cell shape by analyzing biological membranes, interaction with proteins and cytoskeleton using principles from transport phenomena



# Danielle Raudenbush

Assistant Professor

Sociology

New Faculty 7/1/14

- Ph.D. in Sociology, University of Chicago
- Research: Understanding health and well-being of low-income people living in United States, current project examining health care experiences of low-income people who were previously uninsured but have recently gained insurance through implementation of Patient Protection and Affordable Care Act
- Publications include article which examines social cohesion in low-income African American neighborhoods in journal *Symbolic Interaction*



# Stephanie Richards

Assistant Professor

Music

New Faculty 7/1/14

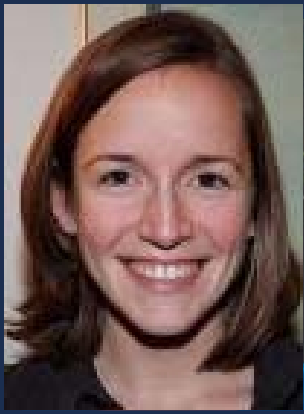
- Master of Music, McGill University; Master of Fine Arts, California Institute of the Arts, and residency at Stanford University
- Founding member of Asphalt Orchestra, Vice-President of Festival of New Trumpet, recently commissioned works, Rotations for twelve choreographed musicians and carousel and Trading Futures for six hundred found sound surfaces
- Exploring space between new music, improvisation and performance art, trumpeter and composer, examines physical, visual and auditory interactions of live music performance



# Jeffrey Rinehart

Assistant Professor  
Chemistry & Biochemistry  
New Faculty 7/1/14

- Ph.D. in Chemistry, UC Berkeley
- Young Investigator Award, American Chemical Society  
Division of Inorganic Chemistry
- Research: Techniques of inorganic coordination chemistry and colloidal nanotechnology to solve current problems in magnetic aspects of energy research
- Prior to UC San Diego, investigated applications of nanoparticles to renewable energy research at University of Washington, supported by Energy Efficiency and Renewable Energy Postdoctoral Scholarship from Department of Energy



# Margaret Roberts

Assistant Professor

Political Science

New Faculty 7/1/14

- Ph.D. in Political Science, Harvard University
- Research: Political methodology, including automated content analysis in Chinese and English and ecological inference; Chinese politics, including politics and governmental censorship in Chinese blogosphere; and international political economy, such as trade politics and politics of surplus countries
- Member, Institute for Quantitative Social Science, Harvard  
Ashford Fellowship, Foreign Language and Area Studies  
Scholarship for Chinese, several Harvard teaching awards



# Debashis Sahoo

Assistant Professor

Pediatrics

New Faculty 5/1/14

- Ph.D. in Electrical Engineering, Stanford University
- Research: Expert in large-scale Boolean analysis of biological systems, goal of identifying significant markers of stem and progenitor cells of both human normal and cancer tissues, research incorporates systems biology approaches to study pediatric diseases
- Siebel Fellowship (2009), Siebel Stem Cell Institute and Thomas and Stacey Siebel Foundation, American Association for Cancer Research Scholar-in-Training Award (2011)





# David Saintillan

Associate Professor

Mechanical & Aerospace Engineering

New Faculty 11/1/13

- Ph.D. in Mechanical Engineering, Stanford University
- Research: Fluid mechanics of so-called “active suspensions” that possess an energetic microstructure such as motile organisms or synthetic micro-swimmers
- Prior to UC San Diego, Assistant Professor in ME Department, UIUC; Postdoctoral Researcher, Courant Institute of Mathematical Sciences
- Andreas Acrivos Dissertation Award (2007) in Fluid Dynamics, American Physical Society; Pi Tau Sigma Gold Medal (2011), American Society of Mechanical Engineers (ASME); National Science Foundation CAREER Award (2012), Division of Engineering



# Antonio Sanchez

Professor

Mechanical & Aerospace Engineering

Ladder Rank Faculty Series Change 7/1/14

- Ph.D. in Engineering Physics, UC San Diego
- Research: General field of chemically reacting flows, including research topics related to clean combustion technologies, aerospace propulsion devices and safety hazards in the built environment
- Prior to UC San Diego, Professor in Department of Thermal and Fluid Sciences, Universidad Carlos III, Madrid, Spain
- Award of the Social Council of Universidad Carlos III for Outstanding Research Accomplishments



# Eric Schmelz

Professor

Cell & Developmental Biology

New Faculty 7/1/14

- Ph.D. in Entomology, University of Arizona
- Research: Plant biology, biochemical mechanisms that influence dynamic interactions between plants and other organisms, currently focusing on analysis/identification of biochemical regulators that mediate induced plant defenses following insect and pathogen attack
- Prior to UC San Diego, Research Scientist, USDA-ARS Center for Medical, Agricultural and Veterinary Entomology, Gainesville, Florida



# Victor Shih

Associate Professor of Political Science  
International Relations & Pacific Studies  
New Faculty 1/1/14

- Ph.D. in Government, Harvard University
- Research: Creation of large dataset on biographies and career trajectories of members of Communist Party Central Committee, providing basis for rigorous empirical analysis of contest for power in China
- Prior UC San Diego, Associate Professor, Political Science Department, Northwestern University
- Published widely on politics of Chinese banking policies, fiscal policies and exchange rates, first analyst to identify risk of massive local government debt



# Dionicio Siegel

Associate Professor, Skaggs School of  
Pharmacy & Pharmaceutical Sciences  
New Faculty 7/1/14

- Ph.D. in Chemistry, Harvard University
- Research: Synthetic routes to natural products that promote regeneration and provide avenues for optimization of natural products' biological performance
- College of Natural Sciences Outreach Excellence Award, University of Texas at Austin (2011), National Science Foundation CAREER Award (2012-2017), Aldrich Lecturer, Yale University (2013)



# Deborah Stein

Assistant Professor  
Theatre & Dance  
New Faculty 7/1/14

- MFA, Brown University, two-time Jerome Fellow-The Playwrights' Center, alumna of New Dramatists
- Twice nominated for Barrymore Award, best new play
- Plays produced/developed by notable organizations such as Guthrie Theater, Seattle Repertory Theatre, Women's Project & Productions, Actors Theatre of Louisville, and The Playwrights' Center, as well as international entities in Poland, Ireland, Edinburgh (Traverse Theatre) and Prague
- Co-artistic Director, Stein Holum Projects (SHP), laboratory for creating new theatre works



# Radhika Sundararajan

Assistant Professor, Emergency Medicine

Assistant Adjunct Professor, Medicine

New Faculty 9/1/14

- M.D., New York University of Medicine
- Residency at Harvard-Affiliated Emergency Medicine Residency Program, PI on studies that investigated social and structural barriers to malaria control in endemic regions
- Research: Understanding barriers of malaria control in marginalized populations with a goal to reduce morbidity and mortality



# Jane Teranes

Lecturer (SOE)

Scripps Institution of Oceanography

Ladder Rank Faculty Series Change 7/1/14

- Ph.D. in Earth Sciences, Swiss Federal Institute of Technology
- Research: Natural environmental systems, concentrating on geochemical study of lake systems and lake sedimentary records for evidence of past environmental change
- Academic Director, Environmental Systems Program (ESYS) at Scripps, Co-PI/Director, Scripps Undergraduate Research Fellowship (SURF)





# Isabel Trevino

Assistant Professor

Economics

New Faculty 7/1/14

- Ph.D. in Economics, New York University
- Research: Microeconomic theory, experimental economics and behavioral models
- Economic theories, with applications to finance and macroeconomics, emphasis in studying how agents use information at their disposal to make decisions in environments characterized by high levels of uncertainty, such as currency crises or investment decisions; and how non-choice data can lead to a better understanding of decision making in situations where subjects do not exhibit rationality, as standard models assume, some examples of non-choice data include study of personality characteristics and response times as determinants of choice



# Volker Vallon

Professor

Medicine & Pharmacology

Ladder Rank Faculty Series Change 11/1/13

- M.D., University of Tübingen, Germany
- Research: Roles played by variety of channels, transporters, receptors and signaling molecules in physiology, pharmacology and pathophysiology of kidney, in particular, use of gene-targeted mouse models, including micropuncture studies on the level of single nephron, to dissect contributions of specific genes



# Massimo Vergassola

Professor

Physics

New Faculty 10/1/13

- Ph.D. in Physics, University of Nice
- Research: Characterize behaviors of biological systems in context of their fluctuating environment, bacterial chemotaxis and neurobiology
- Internationally-recognized theorist in field of hydrodynamic turbulence
- CNRS Research Award Bronze Medal (1998), Grand Prix EADS (2008), French Academy of Sciences, Biomedical Prize Therese Lebrasseur (2010), Foundation de France and Equipe Foundation Recherche Medicale (2012)



# Elizabeth Villa

Assistant Professor  
Chemistry & Biochemistry  
New Faculty 5/12/14

- Ph.D. in Biophysics and Computational Biology, University of Illinois, Urbana-Champaign
- Research: Developing and applying methodologies to study structure and dynamics of macromolecular complexes, building blocks of life, in their natural context, the cell, using imaging techniques to take three-dimensional images of cells to help recognize structural elements of cells and tissue in health and disease
- Prior to UC San Diego, Marie Curie Postdoctoral Fellow, Max Planck Institute of Biochemistry, Munich, Germany



# Matthew Vitz

Assistant Professor  
History  
New Faculty 7/1/14

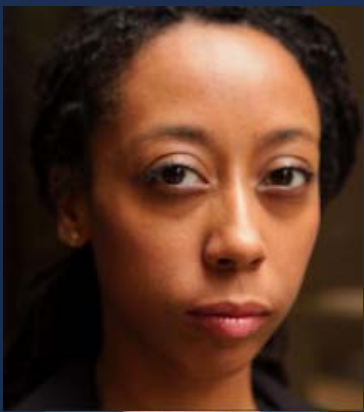
- Ph.D. in Latin American and Caribbean History, New York University, Fulbright-García Robles Scholarship, ACLS-Mellon Dissertation Completion Fellowship
- Research: Environmental, energy and urban history of Mexico and Latin America more broadly
- Postdoctoral Fellow at Center for U.S.-Mexican Studies and Instituto de Investigaciones Historicas (Institute of Historical Research) at Mexico's National University (UNAM), Visiting Assistant Professor, Dartmouth College
- Published articles in several leading journals, including *Hispanic American Historical Review*; currently completing book manuscript that reinterprets modern history of Mexico City, largest city in the Americas, from an environmental perspective



# Bradley Voytek

Assistant Professor  
Cognitive Science  
New Faculty 3/1/14

- Ph.D. in Neuroscience, UC Berkeley
- Research: Neuronal oscillations with a specific focus on neuroplasticity and network communication, research program combines large scale data mining and machine learning techniques with hypothesis-driven experimental research
- Prior to UC San Diego, Postdoctoral Researcher, UC Berkeley; Postdoctoral Fellow, UCSF; University of California President's Postdoctoral Fellow (2013)



# Alena Williams

Assistant Professor

Visual Arts

New Faculty 7/1/14

- Ph.D. in Art History and Archeology, Columbia University
- Research: Film and media history and theory, modern and contemporary art, rhetoric of visual culture, theories of modernity, and epistemology of the image, currently preparing book-length study, *The Total Experiment: Cinema and the Modernist Work of Art*
- Prior to UC San Diego, pursued research and pedagogical activity internationally in diverse range of forms: exhibitions, residencies, screenings, workshops, and research seminars, at some of most important educational and cultural institutions, curator of *Nancy Holt: Sightlines*, an international traveling exhibition on American artist Nancy Holt's Land art, films, videos, and related works from 1966–80 for Miriam and Ira D. Wallach Art Gallery at Columbia University (2010–13), and published companion book with University of California Press (2011)



# Wei Xiong

Assistant Professor  
Chemistry  
New Faculty 7/1/14

- Ph.D. in Chemistry, University of Wisconsin, Madison
- K.V. Reddy Award in Physical Chemistry; Chinese Government Award for Outstanding Self-Financed Students Abroad
- Research: Reveal charge motions and its interaction with other molecular motions by developing and applying new spectroscopic techniques
- Prior to UC San Diego, Postdoctoral Fellow at JILA, University of Colorado, Boulder, where he worked on developing table-top attosecond broadband EUV/soft x-ray light source and using ultrafast two photon photoelectron spectroscopy to study nanoparticles dynamics