

**Associated Faculty at San Diego State University University of California, Irvine
Doctoral Program in Computational Science**

| University of California, Irvine | San Diego State University |
|---|--|
| <p>Mohammad A. Al Faruque, Ph.D. University of Kaiserslautern, Chair of Emulex Career Development and Associate Professor of Electrical Engineering and Computer Science; Mechanical and Aerospace Engineering (system-level design, embedded systems, cyber-physical-systems, multi-core systems)</p> | <p>Reza Akhavian, Ph.D. University of Central Florida, Assistant Professor of Department of Civil, Construction, and Environmental Engineering (Construction Engineering and Management, Internet of Things (IoT), Data Analytics, Machine Learning, Robotics, Cyber-Physical Systems, Building Information Modeling (BIM))</p> |
| <p>Jun F. Allard, Ph.D. University of British Columbia, Assistant Professor of Mathematics; Physics and Astronomy (Mathematical and computational biology)</p> | <p>Ashkan Ashrafi, Ph.D. University of Alabama, Huntsville, Associate Professor of Electrical and Computer Engineering (Digital and Statistical Signal Processing, Real-Time DSP, Biomedical Signal Processing, Fourier Analysis, Direct Digital Frequency Synthesizers, Multivariate Spectral Analysis, Hilbert Spaces, Matrix Theory and Applications)</p> |
| <p>Ioan Andricioaei, Ph.D. Boston University, Professor of Chemistry (Theoretical Chemistry and Biophysics: Developing novel theoretical techniques and applying computer and modeling methods to describe, in terms of dynamics and thermodynamics, biologically important molecular processes, with the aim to complement, enhance or predict experimental findings.)</p> | <p>Barbara Ann Bailey, Ph.D. North Carolina State University, Associate Professor of Statistics (Nonlinear Time Series, Dynamical Systems, and Clouds. Visualization of Nonlinear Models. Environmental Monitoring. Population Dynamics and Embryonic Mortality. Model Validation)</p> |
| <p>Pierre F. Baldi, Ph.D. California Institute of Technology, UCI Chancellor's Professor of Computer Science; Biological Chemistry; Biomedical Engineering; Developmental and Cell Biology (Bioinformatics, computational biology)</p> | <p>Arlette Baljon, Ph.D. University of Chicago, Associate Professor of Physics (Biophysics, Complex Networks, Polymer Science and computational soft matter physics)</p> |
| <p>Kieron Burke, Ph.D. University of California, Santa Barbara, Professor of Chemistry; Physics and Astronomy (Physical chemistry and chemical physics, polymer, materials, nanoscience, theoretical and computational)</p> | <p>Valeria Barra, Ph.D. New Jersey Institute of Technology, Assistant Professor of Mathematics (Scientific Computing, Numerical Solutions of Partial Differential Equations That Can Arise in Fluid Dynamics, Solid Mechanics)</p> |
| <p>Filippo Capolino, Ph.D. University of Florence, Italy, Professor of Electrical and Computer Science (Optics/electromagnetics in nanostructures and sensors, antennas/microwaves, RF and wireless systems)</p> | <p>Sanjay Behura, Ph.D. Pandit Deendayal Energy University, Assistant Professor of Physics (Photophysics of Quantum Materials)</p> |
| <p>Ann Marie Carlton, Ph.D. Rutgers University, Associate Professor of Chemistry (Atmospheric chemistry, aerosol liquid water, cloud processing, secondary organic aerosol)</p> | <p>Anneet Bhalla, Ph.D. Northwestern University, Assistant Professor of Mechanical Engineering (Fluid-Structure Interaction, Multiphase Flows, Aquatic Locomotion, Renewable Energy Device Modeling, Numerical Methods, High Performance Computing, Scientific Software Design)</p> |
| <p>Olivier Cinquin, Ph.D. University College London, Assistant Professor of Developmental and Cell Biology (Mathematical modeling of networks, systems biology)</p> | <p>Peter Blomgren, Ph.D. University of California, Los Angeles, Professor of Mathematics (Image Processing, Wave Propagation in Complex Media, Numerical Solutions of PDEs, Scientific Computing, Nonlinear Dynamical Systems)</p> |
| <p>Kristen Davis, Ph.D. Stanford University, Assistant Professor of Civil and Environmental Engineering; Earth System Science (Coastal Dynamics)</p> | <p>Joaquin Camacho, Ph.D. University of California, Los Angeles, Assistant Professor of Mechanical Engineering (Multiphase Flows, Sustainable Energy, Nanomaterial Theory and Fabrication, Combustion, Aerosol Dynamics, Carbon Materials)</p> |
| <p>Franco De Flaviis, Ph.D. University of California, Los Angeles, Professor of Electrical Engineering and Computer Science (microwave systems, wireless communications, electromagnetic circuit simulations)</p> | <p>Karen Campbell, Ph.D. San Diego State University, Research Assistant Professor of Computational Science (Biostatistics, MCMC Methods, Statistical Modeling, Spatial-Temporal Patterns of Disease, Virus Transmission/Epidemic Modeling, Agent-based Models, Machine Learning)</p> |
| <p>Russell L. Detwiler, Ph.D. University of Colorado Boulder, Associate Professor of Civil and Environmental Engineering (groundwater hydrology, contaminant fate and transport, subsurface process modeling, groundwater/surface-water interaction)</p> | <p>Margherita Capriotti, Ph.D. University of California, San Diego, Assistant Professor of Aerospace Engineering (Develop novel and efficient tools to characterize aerospace composite structures using wave propagation of different physical nature)</p> |
| <p>Magnus Egerstedt, Ph.D. KTH Royal Institute of Technology in Stockholm, Sweden, Professor of Electrical Engineering and Computer Science, Mechanical and Aerospace Engineering (Control theory and robotics, control and coordination of complex networks, multirobot systems, mobile sensor networks and cyber-physical systems)</p> | <p>Ricardo Carretero, Ph.D. University College London, Professor of Mathematics (Nonlinear Dynamics, Nonlinear Waves, Bose-Einstein Condensation (BEC))</p> |
| <p>Filipp Furche, Ph.D. University of Karlsruhe, Professor of Chemistry (Physical chemistry and chemical physics, theoretical and computational)</p> | <p>Jose Castillo, Ph.D. University of New Mexico, Professor of Mathematics (Numerical Solution of Partial Differential Equations, Scientific Computing, and Modeling)</p> |
| <p>Robert Benny Gerber, Ph.D. University of Oxford, Professor of Chemistry (Vibrational spectroscopy, chemical reaction dynamics, biological molecules, molecular dynamics)</p> | <p>Jianwei Chen, Ph.D. Chinese University of Hong Kong, Associate Professor of Statistics (Statistical Inferences for Nonlinear Dynamic Models, Bayesian Methods, MCMC, and Computational Statistics)</p> |
| <p>Wayne B. Hayes, Ph.D. University of Toronto, Associate Professor of Computer Science (Biomedical Informatics and Computational Biology, Computer Vision Scientific and Numerical Computing)</p> | <p>Andy Cooksy, Ph.D. University of California, Berkeley, Professor of Chemistry and Biochemistry (Laser Spectroscopy, Reaction Dynamics, and Ab Initio Calculation of Free Radicals and Other Transient Molecule)</p> |

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| Payam Heydari, Ph.D. University of Southern California, Professor of Electrical Engineering and Computer Science; Biomedical Engineering | Chris Curtis, Ph.D., University of Washington, Assistant Professor of Mathematics (Fluid Mechanics, Modeling and Simulation, Computational Fluid Dynamics and Numerical Simulation) |
| Alexander Ihler, Ph.D. Massachusetts Institute of Technology, Associate Professor of Information and Computer Science (Artificial intelligence and machine learning, focusing on statistical methods for learning from data and on approximate inference techniques for graphical models) | Bryan Donyanavard, Ph.D., University of California, Irvine, Assistant Professor of Computer Science (Runtime Resource Management for Energy-Efficient Execution of Cyber-Physical Systems) |
| Perry Johnson, Ph.D. Johns Hopkins University Assistant Professor of Mechanical and Aerospace Engineering (Turbulent flows, particle-laden and multiphase flows, turbulent boundary layers, large-eddy simulations, scientific computing) | Juanjuan Fan, Ph.D. University of Washington, Professor of Statistics (Multivariate Failure Time Data, Tree Based Methods, Genetic Epidemiology) |
| Frithjof Kruggel, M.D., Ph.D. Ludwig Maximilian University of Munich, Professor of Biomedical Engineering; Electrical Engineering and Computer Science (Biomedical signal and image processing, anatomical and functional neuroimaging in humans, structure-function relationship in the human brain) | Uduak George, Ph.D. University of Sussex, Brighton, UK, Assistant Professor of Mathematics (Mathematical biology, fluid dynamics, continuum mechanics of tissues, morphogenesis, solute transport) |
| Arthur D. Lander, Ph.D. University of California, San Francisco, Donald Bren Professor and Professor of Developmental and Cell Biology; Biomedical Engineering; Logic and Philosophy of Science; Pharmacology (Systems biology of development, pattern formation, growth control) | Jerome Gilles, Ph.D. Ecole Normale Supérieure, France, Associate Professor of Mathematics (Applied Harmonic/Functional Analysis, Signal/Image Processing, Data driven methods, Functional analysis) |
| Marco Levorato, Ph.D. University of Padua, Associate Professor of Computer Science; Electrical Engineering and Computer Science (artificial intelligence and machine learning, networks and distributed systems, statistics and statistical theory, stochastic modeling, signal processing) | Kyle Hasenstab, Ph.D. University of California, Los Angeles, Assistant Professor of Statistics (Deep Neural Networks, Medical Image Analysis, Interpretability of AI Algorithms, Functional Data Analysis) |
| Mo Li, Ph.D. University of Michigan, Assistant Professor of Civil and Environmental Engineering (ultra-damage-tolerant and multifunctional composite materials for protective and resilient structures, built environments, and energy infrastructure) | Hajar Homayouni, Ph.D. Colorado State University, Assistant Professor of Computer Science (Data Quality Testing, Big Data, and Machine Learning) |
| Feng Liu, Ph.D. Princeton University, Professor of Mechanical and Aerospace Engineering (Computational fluid dynamics and combustion, aerodynamics, aeroelasticity, propulsion, turbomachinery aerodynamics and aeromechanics) | Luwen Huangfu, Ph.D. University of Arizona, Assistant Professor of Management Information Systems (Business analytics, public health, text mining, machine learning, data mining) |
| John S. Lowengrub, Ph.D. Courant Institute of Mathematical Sciences, UCI Chancellor's Professor of Mathematics; Biomedical Engineering; Chemical Engineering and Materials Science (Applied and computational mathematics, mathematical and computational biology) | Gustaaf Jacobs, Ph.D. University of Illinois at Chicago, Professor of Aerospace Engineering (Computational Physics, High-Order Methods, Fluid and Plasma Dynamics) |
| Ray Luo, Ph.D. University of Maryland, College Park, Professor of Molecular Biology and Biochemistry; Biomedical Engineering; Chemical Engineering and Materials Science (Protein structure, noncovalent associations involving proteins) | Calvin Johnson, Ph.D. University of Washington, Professor of Physics (Theoretical and Computational Nuclear Structure and Nuclear Astrophysics) |
| Vladimir A. Mandelshtam, Ph.D. Institute of Spectroscopy, Academy of Sciences of USSR, Professor of Chemistry (Theoretical and Computational Chemistry) | Parag Katira, Ph.D., University of Florida, Assistant Professor of Mechanical Engineering (Biomolecular Motors, Cell Mechanics, Mechanosensing, Tissue Dynamics, Soft Matter Interactions, Design of Active Materials) |
| Craig C. Martens, Ph.D. Cornell University, Professor of Chemistry (Theoretical Chemistry, Chemical Physics) | Alicia Kinoshita, Ph.D., University of California, Los Angeles, Associate Professor of Civil Engineering (Hydrologic change in coupled human-natural systems) |
| Eric D. Mjolsness, Ph.D. California Institute of Technology, Professor of Computer Science; Mathematics (Applied mathematics, mathematical biology, modeling languages) | Sunil Kumar, Ph.D., Birla Institute of Technology and Science, India, Professor of Electrical and Computer Engineering, and Thomas G. Pine Faculty Fellow (Wireless Networks, Multimedia Traffic, and Video Compression Techniques) |
| David L. Mobley, Ph.D. University of California, Davis, Associate Professor of Pharmaceutical Sciences; Chemistry (Chemical biology, physical chemistry and chemical physics, theoretical and computational) | Richard Levine, Ph.D. Cornell University, Professor of Statistics (Markov Chain Monte Carlo Methods, Environmental Statistics, Biostatistics, Bayesian Decision Theory) |
| Seyed Ali Mortazavi, Ph.D. California Institute of Technology, Assistant Professor of Developmental and Cell Biology (Functional genomics to study transcriptional regulation in development) | Xiaobai Liu, Ph.D. Huazhong University of Science and Technology, China, Associate Professor of Computer Science (Computer Vision, Machine Learning, Computational Statistics and their applications to clinic diagnosis, sports, transportation, surveillance, video games and others) |
| Shaul Mukamel, Ph.D. Tel Aviv University, UCI Distinguished Professor of Chemistry; Physics and Astronomy (Physical chemistry and chemical physics, polymer, materials, nanoscience, theoretical and computational) | Xialiu Liu, Ph.D. Rutgers University, Associate Professor of Management Information Systems (Factor models for multivariate and matrix time series, high-dimensional time series analysis, functional data analysis, statistical applications in business, engineering, and sciences) |

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| Alexandru Nicolau, Ph.D. Yale University, Department Chair and Professor of Computer Science; Electrical Engineering and Computer Science (Architecture, parallel computation, programming languages and compilers) | Sahar Ghanipoor Machiani, Ph.D. Virginia Tech University, Associate Professor of Civil, Construction, and Environmental Engineering (Traffic Safety and Signal Operation, Human Behavior Modeling, Connected/Automated Vehicles, Evacuation Modeling Infrastructure-Based Safety Systems) |
| Qing Nie, Ph.D. Ohio State University, Chancellor's Professor, Developmental & Cell Biology (Computational Biology; Systems Biology; Stem Cells; Regulatory Networks; Stochastic Dynamics; Scientific Computing and Numerical Analysis) | Yuezhi Mao, Ph.D. University of California, Berkeley, Assistant Professor of Chemistry and Biochemistry (Development and application of theoretical and computational methods to elucidate the fundamental mechanisms involved in chemical problems) |
| Francois W. Primeau, Ph.D. Massachusetts Institute of Technology, Professor of Earth System Science | Marta Miletic, Ph.D. Kansas State University, Assistant Professor of Civil, Construction, and Environmental Engineering (Geotech Engineering) |
| Michael S. Pritchard, Ph.D. University of California, San Diego, Associate Professor of Earth System Science | Duy Nguyen, Ph.D. McGill University, Canada, Assistant Professor of Electrical and Computer Engineering (Signal Processing, Communications, and Information Theories for Wireless Systems and Networks) |
| Roger H. Rangel, Ph.D. University of California, Berkeley, Professor of Mechanical and Aerospace Engineering (Fluid dynamics and heat transfer of multiphase systems including spray combustion, atomization and metal spray solidification, applied mathematics and computational methods) | Zahra Nili Ahmadabadi, Ph.D. University of Quebec (ÉTS), Assistant Professor of Mechanical Engineering (Robot learning, perception, and navigation, multi-agent systems, and physics-based machine learning) |
| Dmitrij Rappoport, Ph.D. University of Karlsruhe, Assistant Researcher of Chemistry (Metric chemical spaces for reaction mechanism prediction and systematic optimization of molecular properties; Excited-state molecular properties and photochemical reaction mechanisms) | Kenneth Nollett, Ph.D. University of Chicago, Assistant Professor of Physics (Theoretical and computational physics, spanning the interface between nuclear physics and astrophysics) |
| Elizabeth L. Read, Ph.D. University of California, Berkeley, Assistant Professor of Chemical Engineering and Materials Science; Molecular Biology and Biochemistry (Dynamics of complex biochemical systems, regulation of immune responses) | Christopher Paolini, Ph.D. San Diego State University, Assistant Professor of Electrical and Computer Engineering (Cyberinfrastructure, Computational Geochemistry and Combustion Science) |
| Eric Rignot, Ph.D. University of Southern California, Donald Bren Professor of Earth System Science (Glaciology, climate change, radar remote sensing, ice sheet modeling, interferometry, radio echo sounding, ice-ocean interactions) | Carlos D. Paternina-Arboleda, Ph.D. University of South Florida, Assistant Professor of Management Information Systems (Supply Chain Analytics, IT-based Optimization of Logistics & Transportation systems, Simulation-based Optimization and meta-heuristics) |
| Timothy Rupert, Ph.D. Massachusetts Institute of Technology, Assistant Professor of Mechanical and Aerospace Engineering; Chemical Engineering and Materials Science (Mechanical behavior, nanomaterials, structure property relationships, microstructural stability, grain boundaries and interfaces, materials characterization) | Pavel Popov, Ph.D. Cornell University, Professor of Aerospace Engineering (Computational combustion with applications to aerospace propulsion. His research interests include combustion instability in aerospace engines, stochastic modelling of turbulent combustion, plasma-combustion interactions simulation of multiphase flow, turbulence modelling and high-performance computing.) |
| Manabu Shiraiwa, Ph.D. Max Planck Institute for Chemistry, Associate Professor of Chemistry (Atmospheric Chemistry, Heterogeneous and Multiphase Chemistry, Aerosol Particles, Reactive Oxygen Species, Kinetic Modeling) | Shangping Ren, Ph.D. University of Illinois at Urbana-Champaign, Professor of Computer Science (Cyber-Physical Systems, Real-Time Scheduling, and Cloud Computing) |
| Albert Siryaporn, Ph.D. University of Pennsylvania, Assistant Professor of Physics & Astronomy; Molecular Biology and Biochemistry (Biological physics, Biofilms, Antibiotic Resistance, Antimicrobial Drug Development, Pseudomonas aeruginosa, bacterial mechanosensation, virulence regulation, pathogenesis, mechano-genetics, PiliY1, microfluidics) | Forest Rohwer, Ph.D. San Diego State University, Professor of Biology (Genomic Analysis of Phage, Diversity of Coral-associated Bacteria, Opportunistic Infections and Coral Disease) |
| Hal S. Stern, Ph.D. Stanford University, Professor of Statistics; Cognitive Sciences (Bayesian methods, model diagnostics, forensic statistics, and statistical applications in biology/health, social sciences, and sports) | Anna Rosen, Ph.D. Assistant Professor of Astronomy (Formation of Massive Stars and Massive Star Clusters, How Stellar Feedback, Star Cluster Disruption and its Dependence on Total Stellar Mass) |
| Lizhi Sun, Ph.D. University of California, Los Angeles, Professor of Civil and Environmental Engineering; Chemical Engineering and Materials Science (Micro- and nano-mechanics, composites and nanocomposites, smart materials and structures, multiscale modeling, elastography) | Eric Sandquist, Ph.D. University of California, Santa Cruz, Professor of Astronomy (Physics of Stars and the Way They Age) |
| A. Lee Swindlehurst, Ph.D. Stanford University, Professor of Electrical Engineering and Computer Science (Signal processing, estimation and detection theory, applications in wireless communications, geo-positioning, radar, sonar, biomedicine) | Karilyn Sant, Ph.D. University of Michigan, Associate Professor of Public Health (Environmental Toxicology, Developmental Toxicology, Nutrient-Toxicant Interactions) |
| Kevin Thornton, Ph.D. University of Chicago, Associate Professor of Ecology and Evolutionary Biology School of Biological Sciences (Genome evolution, gene duplication, population genetics, adaptation) | Anca Segall, Ph.D. University of Utah, Professor of Biology (The Mechanism of Site-Specific Recombination; Structure/Function Analysis of Recombination Proteins) |

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| Douglas J. Tobias, Ph.D. Carnegie Mellon University, Professor of Chemistry (Atmospheric and environmental, chemical biology, physical chemistry and chemical physics, theoretical and computational) | Ignacio Sepulveda, Ph.D. Cornell University, Assistant Professor of Civil Engineering (Coastal Hazards, Coastal Engineering, Tsunami Science, Seismology, Stochastic Calculus for Uncertainty Quantification, Remote sensing, Wave Mechanics, Inversions.) |
| Isabella Velicogna, Ph.D. Università degli Studi di Trieste, UCI Chancellor's Fellow and Professor of Earth System Science | Arun Sethuraman, Ph.D. Iowa State University, Assistant Professor of Bioinformatics (Population Genomics, Evolution, Bioinformatics) |
| Nalini Venkatasubramanian, Ph.D. University of Illinois at Urbana-Champaign, Professor of Computer Science (multimedia computing, networks and distributed systems, global information infrastructure, multiple resource management services) | Satish Sharma, Ph.D. Banaras Hindu University, India, Professor of Electrical and Computer Engineering (Electromagnetics antennas and waves, microwave devices and systems) |
| Jasper A. Vrugt, Ph.D. University of Amsterdam, Associate Professor of Civil and Environmental Engineering; Earth System Science (Complex systems, modeling, statistics, hydrology, geophysics, ecology, data, optimization, hydropower, data assimilation) | Samuel Shen, Ph.D. University of Wisconsin, Madison, Albert W. Johnson Distinguished Professor of Mathematics (Statistical Climatology & Agroclimatology, Fluid Dynamics & Forced Nonlinear Waves) |
| Yun Wang, Ph.D. Pennsylvania State University, Associate Professor of Mechanical and Aerospace Engineering (Fuel cells, computational modeling, thermo-fluidics, two-phase flows, electrochemistry, Computational Fluid Dynamics (CFD), turbulent combustion) | Nicholas Shikuma, Ph.D. University of California, Santa Cruz, Assistant Professor of Biology (Molecular Mechanisms of Bacteria/Bacteriophage/Animal Interactions) |
| Zhiying Wang, Ph.D. California Institute of Technology, Assistant Professor of Electrical Engineering and Computer Science (information theory, coding theory for data storage, modeling, compression, and computation for genomic data) | Usha Sinha, Ph.D. Indian Institute of Science, Bangalore, India, Professor of Physics (Medical and Imaging Physics, Magnetic Resonance Imaging (MRI), and Informatics) |
| Daniel Whiteson, Ph.D. University of California, Berkeley, Associate Professor of Physics and Astronomy; Logic and Philosophy of Science (Particle Physics) | Jeet Sukumaran, Ph.D. University of Kansas, Assistant Professor of Biology (Process-based modeling of macroevolutionary dynamics, diversification, and biogeography/phylogeography; species delimitation; host-parasite coevolution, phylogenetics) |
| Dominik Franz X. Wodarz, Ph.D. Oxford University, Professor of Ecology and Evolutionary Biology; Mathematics | Naveen Vaidya, Ph.D. York University, Canada, Associate Professor of Mathematics (Applied Mathematics, Mathematical Biology, Disease Modeling, Differential Equations) |
| Xaiohui Xie, Ph.D. Massachusetts Institute of Technology, Associate Professor of Computer Science; Developmental and Cell Biology (computational biology, bioinformatics, genomics, neural computation, machine learning) | Satchi Venkataraman, Ph.D. University of Florida, Professor of Aerospace Engineering (Structural Mechanics, Design Optimization, Composite Materials, Biomechanics) |
| Charles S. Zender, Ph.D. University of Colorado Boulder, Professor of Earth System Science; Computer Science | Wei Wang, Ph.D. University of Nebraska, Lincoln, Associate Professor of Computer Science (Cyber-Physical Systems, Wireless Multimedia Networking, Breast Cancer Image Processing) |
| | Qi Wang, Ph.D. Johns Hopkins University, Assistant Professor of Aerospace Engineering (Data Assimilation in Turbulent Environments, Adjoint-Based Optimization, Measurement-Enhanced Simulations, Drag Reduction and Optimal Sensor Placement, Pollution Source Localization in Stratified or Non-Stratified Turbulence) |
| | Fridolin Weber, Ph.D. University of Munich, Germany, Albert W. Johnson Distinguished Professor of Physics (Superdense Matter, Astrophysics, General Relativity) |
| | Junfei Xie, Ph.D. University of North Texas, Assistant Professor of Electrical and Computer Engineering (Unmanned Aerial Systems, Networked Airborne Computing, Airborne Networks, Air Traffic Flow Management, Cyber-Physical Systems, Machine Learning & Artificial Intelligence, System Modeling and Control, Complex Information Systems) |
| | Tao Xie, Ph.D. New Mexico Institute of Mining and Technology, Professor of Computer Science (High-Performance Computing, Energy-Efficient Storage Systems, Parallel/Distributed Systems, and Security-Aware Scheduling) |
| | Ahmad Bani Younes, Ph.D. Texas A&M University, Assistant Professor of Aerospace Engineering (Space research topics: including the development of fast and high fidelity gravity model for the earth anomalies; fast and efficient trajectories propagation for satellite motions; optimal control theory, and, algorithms development for optimization theory, perturbation theory, orbital motion, and very broadly algorithmic differentiation for automatically generating mixed sets of high-order partial derivatives.) |