# Abhejit Rajagopal, PhD

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**My focus**: Mechanistic and longitudinal modeling of human health for personalized therapy & reprogramming via causal AI.

## Education

**Postdoctoral Fellow, Radiology & Biomedical Imaging** 12/2023
University of California, San Francisco
*Supported by a NIH/NIBIB F32 Fellowship*, "Multi-modal and Extreme PET/MRI Reconstruction Methods"

**Doctor of Philosophy, Electrical & Computer Engineering** 09/2019
University of California, Santa Barbara
- *PhD thesis:* "High-Dimensional Polynomial Approximation with Applications in Imaging and Recognition"
- *Committee: Shiv Chandrasekaran (chair), Hua Lee, Upamanyu Madhow, Kenneth Rose, Hrushikesh Mhaskar*

**Master of Science, Electrical & Computer Engineering** 06/2016
University of California, Santa Barbara

**Bachelor of Science, Electrical Engineering** 06/2014
University of California, Los Angeles

## Selected Publications

S4 **PULSAR: a Foundation Model for Multi-scale and Multicellular Biology** *under review*, doi:10.1101/2025.11.24.685470
K. Pang, Y. Rosen, K. Kedzierska, Z. He, A. Rajagopal, C. Gusatfson, G. Huynh, J. Leskovec, 2025.

S3 **scGeneScope: A Treatment-Matched Single Cell Imaging and Transcriptomics Dataset and Benchmark for Treatment Response Modeling**
J. Dapello, ..., A. Rajagopal, ... V. Pedoia, H. El-Samad. *Neural Information Processing Systems (**NeurIPS**)*, 2025.

S2 **Mixed Supervision of Histopathology Improves Prostate Cancer Classification from MRI**
A. Rajagopal, A. Westphalen, N. Velarde, J. Simko, H. Nguyen, T.A. Hope, P.E.Z. Larson, K. Magudia. *IEEE Transactions on Medical Imaging (**IEEE TMI**)*, Mar 2024

S1 **Understanding and Visualizing Generalization in UNets**
A. Rajagopal, V.C. Madala, T.A. Hope, P.E.Z. Larson. *Medical Imaging and Deep Learning (**MIDL**)*, 2021

## Experience

**Senior AI Research Scientist**, Office of the CTO, Allen Institute, Seattle, Washington **11/2024 - Present**
- Leading mechanistic interpretability for deep learning foundation models using atlas-scale clinical data (see S1)
- Developed a multi-scale foundation model for human immunology based on PBMCs (PULSAR, see S4)
- Developing clinically-validated immune reprogramming approaches using AI foundation models (B-cells, T-cells).
- Established legal partnerships with Stanford, UCLA, UCSF, Fred Hutch, Seattle Children's, Anthropic, and AI$^2$.

**Adjunct Assistant Professor**, Urology, University of California, San Francisco **04/2025 - Present**
- Developing algorithms for longitudinal analysis of cancer using spatial transcriptomics, histopathology, and MRI (see S2)
- Advising graduate students on deep learning, foundation models, and building AI tools for training on clinical data.

**Senior Scientist, Machine Learning**, Altos Labs, Redwood City, California **01/2024 - 11/2024**
- Developed single-cell and multi-modality imaging foundation models and benchmarks for treatment response (see S3)
- Developed new compressed sensing approach to protein language models using Cryo-EM projection data.
- Developed an end-to-end differentiable approach for optimizing chemical signaling networks using in vitro data.

**NIH F32 Postdoc Fellow**, Radiology & Biomedical Imaging, University of California, San Francisco **09/2022 - 01/2024**
- Won a NIH/NIBIB F32 postdoctoral fellowship: *"Multi-modal and Extreme PET/MRI Reconstruction Methods"*
- Developed new compressed sensing algorithms for cancer imaging and radiotherapy that use AI with formal guarantees
- 15 publications (8 first-author), 4 patent applications, Advised by Peder E.Z. Larson (PhD) and Thomas A. Hope (MD)

**Senior Analyst / Analyst / Intern**, ISR Algorithms, Toyon Research Corp., Goleta, California **12/2015 - 01/2024**
- Worked on defense R&D concurrently with my PhD studies, promoted several times for exceeding expectations.
- Principal Investigaor on multiple 3D deep learning R&D grants, totaling over $6M (Navy, Air Force Research Lab, DARPA)
- Prioneered the use of multi-modality deep learning in geospatial and distributed sensing systems (EO/IR, LIDAR, SAR)
- Won Toyon's 1st deep learning grant (for 3D cognitive LIDAR), invented NeRFs for 3D synthetic aperture radar

**Graduate Student Researcher**, Scientific Computing Group, University of California, Santa Barbara **09/2014 - 09/2019**
- Advised by Shivkumar Chandrasekarn. Training in numerical linear algebra, approximation theory, and inverse problems.
- PhD thesis derived generalization bounds for deep learning via compositional polynomial networks + numerical validation.
- Built several end-to-end systems-level implementations for geospatial sensing and medical imaging (see J3,J4,C5,C6,C8).

**Teaching Asssistant**, Eletrcial & Computer Engineering, University of California, Santa Barbara **09/2014 - 06/2017**

- Undergraduate (8 quarters): Signals and Systems (I, II, III), Electromagnetics, Circuit Analysis, Transistor Circuits (I, II),
- Graduate (5 quarters): Advanced DSP, Speech Processing, and Matrix Analysis

**Consultant**, Neural Analytics Inc., Los Angeles, California **12/2014 - 12/2015**

- Signal processing and machine learning for intracranial pressure and transcranial Doppler ultrasound (J2)
- Licensed UCLA patent for multi-modal manifold learning for traumatic brain injury prognosis (see P1)

**Research Intern**, Akela Inc., Goleta, California **06/2015 - 09/2015**

- Built data-driven algorithms for vector network analyzer (VNA) calibration and 6GHz synthetic aperture radar imaging.

**Undergraduate Researcher**, Integrated NanoMaterials Core Lab, University of California Los Angeles **02/2013 - 06/2014**

- Built 3D FDTD/FD simulations of sub-wavelength optics and electron transport in nanopillar PVs and APDs (see J1,M1)

## Awards & Honors

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|---|---|
| **People's Choice**, "The New Lab Partner: AI and Future Scientific Discovery", SXSW 2026 | 03/2026 |
| **Honorable Mention**, "Machine-interpretable Tokenization of Failed Experiments", Allen Innovation Awards | 11/2025 |
| **Magna Cum Laude Award**, International Society for Magnetic Resonance in Medicine (ISMRM) | 05/2023 |
| **Dean's Award for Excellence in Mentoring**, Honorable Mention, UC San Francisco | 01/2023 |
| **Best Podium Presentation Award**, Radiology Imaging Research Symposium, UC San Francisco | 12/2022 |
| **Best Long Oral Presentation Award**, Medical Imaging with Deep Learning (MIDL) | 07/2021 |
| **NIH F32 Postdoctoral Fellowship**, National Institute of Biomedical Imaging and Bioengineering (NIBIB) | 07/2020 |
| **Dissertation Fellowship**, Dept. of Electrical & Computer Engineering, UC Santa Barbara | 05/2019 |
| **Outstanding ECE Teaching Assistant Award**, UC Santa Barbara | 05/2018 |
| **Best Poster Award**, Physics of Medical Imaging, SPIE Medical Imaging | 02/2018 |
| **Best Poster Award**, UC Bioengineering Symposium | 06/2017 |
| **Graduate Fellowship**, American Society of Engineers of Indian Origin (ASEI) | 06/2014 |

## Grant Funding

**Total PI-led funding: ~$3.2M; Co-Investigator: $122K subaward of $4M NIH R01**

- **$4.0M Co-Investigator**, NIH NCI, R01CA296792; **PI subaward $122K** *"Multimodality spatial analysis in prostate cancer to improve prognostic estimation and cast light into the black box of pathology AI algorithms"* ~ **01/2025 - Present**
- **$1.8M Principal Investigator**, DoD DARPA, Fiddler Phase-I, HR001122S0016-22-3667 *"Neural Reflectance Fields for Radio Frequencies (NeRF-RF)"* ~ **12/2022 - 03/2024**
- **$750K Principal Investigator**, DoD AFRL, SBIR Phase II: AF212-D007, FA8650-22-C-1010 *"3D EO/SAR Reconstructions from Single and Limited Viewing Perspectives"* ~ **04/2022 - 04/2024**
- **$50K Principal Investigator**, Benioff Initiative for Prostate Cancer Research *"AI-assisted Targeted Prostate Radiotherapy"* (Co-PI with J. Scholey, UCSF) ~ **08/2021 - 06/2023**
- **$141K Principal Investigator**, NIH NIBIB, F32 Postdoctoral Fellowship, F32EB030411 *"Multi-modal and Extreme PET/MRI Reconstruction Methods"* ~ **12/2020 - 05/2023**
- **$225K Principal Investigator**, DoD/SCO, SBIR Phase I: OSD161-138, HQ0034-19-P-0017 *"Maritime Target Classification from ISAR Using Machine Learning"* ~ **12/2018 - 06/2019**
- **$125K Principal Investigator**, DoD/NAWC, SBIR Phase I: N161-138, N68335-19-C-0109 *"Blending Classical Model-Based Target Classification with Data-Driven AI"* ~ **10/2018 - 04/2019**
- **$750K Principal Investigator**, DoD/AFRL, SBIR Phase II: AF161-138, FA8650-18-C-1137 *"Cognitive Processing and Exploitation of 3D LiDAR Imagery Data"* ~ **11/2017 - 02/2020**

## Publications

*Journals [J], Conferences [C], Magazines [M], Workshops [W]*

J17 **MRI Metabolic Biomarkers Predict Ischemic Lesion Survival in Hyperacute Stroke** (to appear in *Radiology*)
Nael et al., Apr 2026.

W7 **The Need for Computational Pluralism**
D. Dangwal, A. Rajagopal. *Workshop on Ethical Systems and Architecture Design (**HotEthics**)*, Mar 2026.

C12 **A Mixed Precision FFT with Applications in MRI**
N. Deveshwar, A. Rajagopal, P.E.Z. Larson. *IEEE International Conference on Acoustics, Speech, and Signal Processing (**ICASSP**)*, May 2025.

C11 **scGeneScope: A Treatment-Matched Single Cell Imaging and Transcriptomics Dataset and Benchmark for Treatment Response Modeling**(see S3)
J. Dapello, ..., A. Rajagopal, ..., V. Pedoia, H. El-Samad. *Neural Information Processing Systems (**NeurIPS**)*, Dec 2025.

J16 **Utility of Metastasis-directed Radiotherapy With and Without Hormonal Therapy in Management of Oligometastatic Prostate Cancer**
W.S. Chen, A.M. Tuchayi, A. Sabbagh, ..., A. Rajagopal, ..., T.A. Hope, J.C. Hong. *JNCI Cancer Spectrum*, Aug 2025.

J15 **Deep Learning Based Tumor Segmentation on MRI of Prostate Cancer Patient-Derived Xenografts in Mouse Models**
S. Nayak, H. Salkever, E. Diaz, A. Sinha, N. Deveshwar, M. Hess, M. Gibbons, S. Sahin, A. Rajagopal, P.E.Z. Larson, R. Sriram. *Tomography*, Feb 2025.

W6 **UCSF RMaC: A 3D Multi-Phase Renal Mass CT Dataset with Tumor Segmentations**
S. Sahin, E. Diaz, S. Jones, Q. Dai, S. Kramer, A. Rajagopal, P.E.Z. Larson, Z. Wang. *UCSF Imaging Commons*, Jan 2025.

J14 **Deep learning for MRI-based radiation therapy of prostate cancer: current status**
J. Scholey, A. Rajagopal, J. Hong, P.E.Z. Larson, K. Sheng. *Reviews in Urology*, Dec 2024.

J13 **Assessment of Lesion Insertion Tool in Pelvis PET/MR Data with Applications to Attenuation Correction Method Development**
Y. Natsuaki, ..., A. Rajagopal, P.E.Z. Larson, T.A. Hope, S.St. James. *Journal of Applied Clinical Medical Physics*, Sep 2024.

J12 **Mixed Supervision of Histopathology Improves Prostate Cancer Classification from MRI** (see S4)
A. Rajagopal, A.C. Westphalen, N. Velarde, J. Simko, H. Nguyen, T.A. Hope, P.E.Z. Larson, K. Magudia. *IEEE Transactions on Medical Imaging (**IEEE TMI**)*, Mar 2024.

J11 **Presurgical 68Ga-PSMA-11 Positron Emission Tomography for Biochemical Recurrence Risk Assessment**
L. Djaileb, W.R. Armstrong, ..., A. Rajagopal, ..., T.A. Hope, J. Calais. *European Urology*, Jun 2023.

C11 **Enhanced Compressed Sensing 3D SAR Imaging via Cross-Modality EO-SAR Joint-Sparsity Priors**
A. Rajagopal, J. Hilton, D. Boutte, A.P. Brown, J.R. Jamora. *SPIE Defense and Security (**SPIE-DCS**)*, May 2023.

J10 **Synthesizing Complex Multicoil MRI Data from Magnitude-only Images**
N. Deveshwar, A. Rajagopal, S. Sahin, E. Shimron, P.E.Z. Larson. *Bioengineering*, Mar 2023.

J9 **Federated Learning with Research Prototypes: Application to Multi-Center MRI Detection of Prostate Cancer**
A. Rajagopal, K. Redekop, A. Kemisetti, R. Kulkarni, K. Sarma, S. Raman, K. Magudia, C.W. Arnold, P.E.Z. Larson. *Academic Radiology*, Mar 2023.

J8 **Synthetic PET via Domain Translation of 3D MRI**
A. Rajagopal, Y. Natsuaki, K. Wangerin, M. Hamdi, R. Laforest, H. An, P.E. Kinahan, J.J. Sunderland, T.A. Hope, P.E.Z. Larson. *IEEE Transactions on Radiation and Plasma Medical Sciences (**IEEE TRPMS**)*, Jun 2022.

J7 **Generation of synthetic megavoltage CT for MRI-only radiotherapy treatment planning using a 3D deep convolutional neural network**
J. Scholey, A. Rajagopal, E. Vasquez, A. Sudhyadhom, P.E.Z. Larson. *Medical Physics*, Jun 2022.

W5 **Physics-driven Deep Learning for PET/MRI**
A. Rajagopal, A.P. Leynes, N. Dwork, J. Scholey, T.A. Hope, P.E.Z. Larson. Jun 2022.

J6 **Harmonization of PET image Reconstruction HyperParameters in Simultaneous PET/MRI**
R. Laforest, M. Khaligi, Y. Natsuaki, A. Rajagopal, ..., T.A. Hope. *European Journal of Nuclear Medicine and Molecular Imaging (**EJNMMI Physics**)*, Nov 2021.

J5 **A Path to Qualification of PET/MR Scanners for Multicenter Brain Imaging Studies**
C. Catana, R. Laforest, ..., A. Rajagopal, ..., T.A. Hope. *Journal of Nuclear Medicine (**JNM**)*, Jul 2021.

C10 **Understanding and Visualizing Generalization in UNets** (see [~S5])
A. Rajagopal, V.C. Madala, T.A. Hope, P.E.Z. Larson. *Medical Imaging with Deep Learning (**MIDL**)*, Jul 2021. **(Best Long Oral Presentation Award)**

C9 **Enhanced PET/MRI Reconstruction via Dichromatic Interpolation of Domain-Translated Zero-Dose PET**
A. Rajagopal, N. Dwork, T.A. Hope, P.E.Z. Larson. *SPIE Medical Imaging*, Feb 2021.

W3 **Predicting Generalization in Deep Learning via Local Measures of Distortion**
A. Rajagopal, V.C. Madala, S. Chandrasekaran, P.E.Z. Larson. *NeurIPS Workshop on Predicting Generalization in Deep Learning (**PGDL**)*, Dec 2020.

C8 **DeepOSM-3D: recognition in aerial LiDAR RGBD imagery**
A. Rajagopal, W. Nelson, N. Stier, S. Chandrasekaran, A.P. Brown. *SPIE Defense and Commercial Sensing (**SPIE-DCS**)*, Apr 2020.

C7 **Remote Heart Monitoring via Medical Telemetry**
V.R. Radzicki, A. Rajagopal, H. Lee. *International Telemetry Conference (**ITC**)*, Oct 2019.

W2 **Deep Learning for Inverse Problems**
A. Rajagopal, V.R. Radzicki, H. Lee, S. Chandrasekaran. *International Conference on Machine Learning, Workshop on Theoretical Physics for Deep Learning (**TPDL**)*, Jun 2019.

C6 **Towards deep iterative-reconstruction algorithms for computed tomography (CT/SPECT) applications**
A. Rajagopal, N. Stier, J. Dey, M.A. King, S. Chandrasekaran. *SPIE Medical Imaging (**SPIE-MI**)*, Feb 2019.

J4 **Nonlinear electrocardiographic imaging using polynomial approximation networks**
A. Rajagopal, V.R. Radzicki, H. Lee, S. Chandrasekaran. *APL Bioengineering*, Oct 2018.

C5 **Fast Algorithms for Displacement and Low-Rank Structured Matrices**
S. Chandrasekaran, N. Govindarajan, A. Rajagopal. *ACM International Symposium on Symbolic and Algebraic Computation (**ISSAC**)*, Jul 2018.

C4 **Deep Algorithms: designs for networks**
A. Rajagopal, H.N. Mhaskar, S. Chandrasekaran. *Human-Machine Collaboration, MIT Lincoln Laboratory*, Jun 2018.

C3 **Towards non-invasive electrocardiographic imaging using regularized neural networks**
A. Rajagopal, V.R. Radzicki, H. Lee, S. Chandrasekaran. *SPIE Medical Imaging*, Feb 2018. **(Best Poster Award)**

C2 **Tracking Information in RaDAR Image Formation and Classification Algorithms**
A. Rajagopal, V.R. Radzicki, S. Chandrasekaran, H. Lee. *International Telemetry Conference (ITC)*, Oct 2017.

C1 **A machine learning pipeline for automated registration and classification of 3D LiDAR data**
A. Rajagopal, K. Chellappan, S. Chandrasekaran, A.P. Brown. *SPIE Defense and Commercial Sensing*, May 2017.

J3 **Fast indefinite multi-point clustering**
S. Chandrasekaran, A. Rajagopal. *Calcolo*, Apr 2016.

J2 **Noise reduction in intracranial pressure signal using causal shape manifolds**
A. Rajagopal, R. Hamilton, F. Scalzo. *Biomedical Signal Processing and Control*, Mar 2016.

J1 **Plasmonic field confinement for separate absorption-multiplication in InGaAs nanopillar avalanche photodiodes**
A. Farrell, P. Senanayake, C.H. Hung, G. El-howayek, A. Rajagopal, M. Currie, M. Hayat, D.L. Huffaker. *Scientific Reports*, Dec 2015.

M1 **High-efficiency nanopillar solar cells employing wide-bandgap surface recombination barrier**
G. Mariani, M. Haddad, A. Rajagopal, D.L. Huffaker. *SPIE Photonics West*, Feb 2014.

W1 **NeuroPass: A secure neural password based on EEG**
A. Rajagopal, A.C. Nguyen, D.M. Briggs. *EE113D, UCLA*, Dec 2013.

## Preprints

. **Discovering Nonlinear Programs Hidden within Biological Foundation Models** A. Rajagopal, D. Dangwal, K. Pang, G. Huynh. *under review*, Mar 2026.

. **Error Bounds for Mixed-Precision FFT with Microscaling** N. Deveshwar, A. Rajagopal, P.E.Z. Larson. *under review*, Feb 2026.

. **Cross-species Consensus Atlas of the Primate Basal Ganglia** N. Johansen, ..., A. Rajagopal, ..., E. Lein, T. Bakken. *under review*, Oct 2025.

. **PULSAR: a Foundation Model for Multi-scale and Multicellular Biology** (see S2) K. Pang, Y. Rosen, K. Kedzierska, Z. He, A. Rajagopal, C. Gustafson, G. Huynh, J. Leskovec. *under review*, Sep 2025.

. **Multi-task Learning and Ensemble Approach to Predict Cognitive Scores for Patients with Alzheimer's Disease** D. Ma, C. Pablan, A. Akanksha, Y. Interian, A. Rajagopal, Y. Yang, A. Raj. *under review at Nature Aging*.

## Patents and Disclosures

P7 **Microscaling Algorithms for FFT**
N. Deveshwar, A. Rajagopal, P.E.Z. Larson. *University of California*, **, disclosed Dec 2025.

P6 **Methods for Neural Trace Analysis**
A. Rajagopal, G. Huynh, D. Dangwal. *Allen Institute*, disclosed Jun 2025, filed Oct 2025.

P5 **Methods and Systems for Synthesizing Raw Multichannel Data**
N. Deveshwar, A. Rajagopal, P.E.Z. Larson. *University of California*, WO2025049719A2, disclosed Dec 2023, filed Aug 2024.

P4 **Techniques to predict the compatibility, applicability, and generalization performance of a machine-learning algorithm at run-time**
A. Rajagopal, T.A. Hope, P.E.Z. Larson. *University of California*, WO2024077129A1, disclosed Oct 2022, filed Oct 2023.

P3 **Fusion of deep-learning based image reconstruction with noisy image measurements**
A. Rajagopal, N. Dwork, P.E.Z. Larson, T.A. Hope. *University of California and U.S. Dept. of Veterans Affairs*, US20250069290A1, disclosed Nov 2021, filed Dec 2022.

P2 **Machine learning techniques for tumor identification, classification, and grading**
A. Rajagopal, K. Magudia, P.E.Z. Larson. *University of California*, US20230410301A1, disclosed Oct 2020, filed Nov 2021.

P1 **Machine-learning based denoising of doppler ultrasound blood flow and intracranial pressure signal**
F. Scalzo, A. Rajagopal. *University of California*, US201662279653, disclosed Jan 2016, filed Jan 2017.

## Selected Invited Talks

"Opening the Black-Box of Biology", *AI Instititute in Dynamic Systems, University of Washington* 04/2026
"The New Lab Partner: AI and Future Scientific Discovery", *SXSW 2026, Austin, USA* 03/2026
"Data Prioritization for Single-Cell Models", *Finding Your Inner Modeler Workshop, UC Irvine* 08/2025
"Deeply Understanding (with) Deep Learning", *Dept. of EECS, Washington State University* 08/2025
"Deep Learning for Precision Biomedicine", *Dept. of Bioengineering, UCLA* 03/2025
"Theory-backed Approaches for Robust Medical AI", *Dept. of Mechanical Engineering, University of Washington* 01/2025
"Multi-Modality Deep Learning for Biomedicine", *Allen Institute, Seattle* 10/2024
"Robust AI & Inverse Problems in Computational Pathology", *Dept. of Pathology, UCLA* 04/2024
"Robust AI for Multi-Modality Characterization of Cancer", *Altos Labs, Redwood City* 09/2023
"Federated Learning for Multi-Institutional Prostate MRI", *ISMRM Annual Meeting, Toronto* 06/2023
"Robust Deep Learning for Imaging and Recognition", *Dept. of ECEE, Arizona State University* 04/2021
"Understanding and Visualizing Generalization in UNets", *MIDL, Lubeck, Germany* 08/2021
"Augmented Intelligence for Robust Radiology", *Bakar Computational Health Sciences Institute, Berkeley* 04/2021
"Predicting Generalization via Local Measures of Distortion", *NeurIPS Workshop on PGDL* 12/2020
"Deep Learning-based MR-derived PET Prediction", *ISMRM PET-MRI Study Group, Sydney* 04/2020
"Introduction to the GE PET/MR Toolbox", *SNMMI PET/MR Workshop, New York* 10/2019
"Deep Algorithms: designs for networks", *Naval Applications of Machine Learning, NSWC Coronado* 02/2019

## Teaching

**Mentorship**: 2020 - present
- Current: Kuan Pang (PhD student, Stanford), Maggie Tsui (PhD student, UCSF), Nikhil Deveshwar (Postdoc, UCSF)
- Former: S. Sahin (2022-2024, PhD student, UCSF/Berkeley), J. Scholey (2021-2023, PhD student, UCSF/Berkeley), Phil Xie (2021-2023, Undergraduate student, UC Berkeley), Vamshi Chowdary (2020-2021, MS Student, UCSB)

**Summer Lecturer**, University of California, San Francisco 2020 - 2023
- UCSF BCHSI AI4ALL Program: "Feature Engineering", "Regression", "Neural Networks"
- UCSF CI2Summer Lecture:"Math for Machine Learning (Math4ML)", "Introduction to Machine Learning"

**Teaching Assistant**, Dept. of Electrical & Computer Engineering, University of California, Santa Barbara 2014 - 2017
- ECE 2A Circuits, Devices, and Systems; ECE 137A/B Circuits and Electronics I/II
- ECE 130A/B/C Signal Analysis & Processing I/II/III; ECE 134 Introduction to Fields and Waves
- (Graduate:) ECE 210A Matrix Analysis; ECE 259A Digital Speech Processing; ECE 258A Advanced DSP

**Guest Lecturer**, ECE 137B, University of California, Santa Barbara Spring 2015
- "An Introduction to Feedback Control in Transistor Circuits" (for Professor Mark Rodwell)

## Service

**Reviewing Activities**
- *ML/CV:* ICLR, IEEE WACV, IJCNN, MIDL, NeurIPS
- *Imaging:* IEEE TCI, IEEE TMI, IEEE TGRS, IEEE JHBI, Elsevier BSPC, MDPI Tomography
- *Bio-medicine:* ISMB, Nature Cancer, MLCB

**University Service**
- Co-Director of Educational Pillar, UCSF Center for Intelligent imaging 2022 - 2023
- UCSF CI2Summer Tutorial, Hackathon, and Seminar Series 2021 - 2023

**Mentoring & Outreach Programs**
- UCSF Research Initiative to Promote Diversity in Radiology (RIDR) 2021 - 2023
- UCSF Center for Intelligent Imaging (CI2) 2021 - 2023
- UCSB Research Mentorship Program 2015 - 2017