

Aaron S. Meyer

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EDUCATION

Massachusetts Institute of Technology, Cambridge, MA 2009–2014

Ph.D., Biological Engineering

- Thesis: Quantitative approaches to understanding signaling regulation of 3D cell migration

University of California, Los Angeles, CA 2005–2009

B.S., Bioengineering, magna cum laude

PROFESSIONAL EXPERIENCE

Associate Professor Los Angeles, CA

University of California, Los Angeles

2023–Present

Bioengineering Department

Bioinformatics Interdepartmental Graduate Program

Computational & Systems Biology Interdepartmental Program

Vice Chair of Graduate Studies Los Angeles, CA

University of California, Los Angeles

2024–Present

Bioengineering Department

Co-Director, Amgen Scholars Program Los Angeles, CA

University of California, Los Angeles

2024–Present

Assistant Professor Los Angeles, CA

University of California, Los Angeles

2017–2023

Principal Investigator & Research Fellow Cambridge, MA

Massachusetts Institute of Technology

2014–2017

Koch Institute for Integrative Cancer Research

Graduate Student Researcher Cambridge, MA

Massachusetts Institute of Technology

2009–2014

Department of Biological Engineering

Koch Institute for Integrative Cancer Research

Undergraduate Researcher Los Angeles, CA

University of California, Los Angeles

2006–2009

In the lab of Daniel Kamei

AWARDS & RECOGNITIONS

Diversity, Equity and Inclusion Award, Society For Biomaterials 2025

Outstanding Mentor Award, Bruins-In-Genomics 2022, 2024

Emerging Leader Award, Mark Foundation for Cancer Research 2023

Northrop Grumman Excellence in Teaching Award 2021

Milstein Abstract Award, Cytokine Society 2021

UCLA Hellman Fellow 2019

Career Awards at the Scientific Interface Finalist, Burroughs Wellcome Fund 2017

Fellowship, Terri Brodeur Breast Cancer Foundation 2017

Ten to Watch, Amgen Scholars Foundation 2016

Director's Early Independence Award, National Institutes of Health 2014

Highlighted by the NIH director's office ([link](#))

PUBLICATIONS

- [1] H. Kojima, T. A. Morinelli, Y. Wang, **J. L. Chin, A. S. Meyer**, Y.-C. Kao, K. Kadono, S. Yao, T. Torgerson, K. J. Dery, A. Bhat, E. F. Reed, F. M. Kaldas, D. J. van der Windt, D. G. Farmer, and J. W. Kupiec, "Group 1 innate lymphoid cells protect liver transplants from ischemia-reperfusion injury via an interferon- γ -mediated pathway," *American Journal of Transplantation*, Dec. 2024, doi: 10.1016/j.ajt.2024.11.035.
- [2] **A. A. Abraham, Z. C. Tan, P. Shrestha, E. R. Bozich, and A. S. Meyer**, "A multivalent binding model infers antibody Fc species from systems serology," *PLoS Computational Biology*, vol. 20, no. 12, p. e1012663, Dec. 2024, doi: 10.1371/journal.pcbi.1012663.
- [3] C. S. Movassaghi, K. A. Perrotta, M. E. Curry, A. N. Nashner, K. K. Nguyen, M. E. Wesely, M. A. Fillol, C. Lui, **A. S. Meyer**, and A. M. Andrews, "Machine-learning-guided design of voltammetry waveforms," *chemRxiv [Preprint]*, Dec. 2024.
- [4] **B. Orcutt-Jahns**, J. R. L. Junior, **E. Lin**, R. C. Rockne, A. Matache, S. Branciamore, **E. Hung**, A. S. Rodin, P. P. Lee, and **A. S. Meyer**, "Systems profiling reveals recurrently dysregulated cytokine signaling responses in ER+ breast cancer patients' blood," *npj Systems Biology and Applications*, no. 118, Oct. 2024, doi: 10.1038/s41540-024-00447-0.
- [5] **Z. C. Tan** and **A. S. Meyer**, "The structure is the message: preserving experimental context through tensor decomposition," *Cell Systems*, vol. 15, no. 8, pp. 679–693, Aug. 2024, doi: 10.1016/j.cels.2024.07.004.
- [6] **A. Ramirez, B. T. Orcutt-Jahns, S. Pascoe, A. Abraham, B. Remigio, N. Thomas, and A. S. Meyer**, "Integrative, high-resolution analysis of single cells across experimental conditions with PARAFAC2," *bioRxiv [Preprint]*, Jul. 2024, doi: 10.1101/2024.07.29.605698v1.
- [7] **E. C. Hung, E. Hodzic, Z. C. Tan, and A. S. Meyer**, "Censored Least Squares for Imputing Missing Values in PARAFAC Tensor Factorization," *bioRxiv [Preprint]*, Jul. 2024.
- [8] **J. L. Chin, Z. C. Tan**, L. C. Chan, F. Ruffin, R. Parmar, R. Ahn, **S. Taylor**, A. S. Bayer, A. Hoffmann, J. Vance G Fowler, E. F. Reed, M. R. Yeaman, **A. S. Meyer**, and MRSA Systems Immunobiology Group, "Tensor modeling of MRSA bacteremia cytokine and transcriptional patterns reveals coordinated, outcome-associated immunological programs," *PNAS Nexus*, p. pgae185, May 2024, doi: 10.1093/pnasnexus/pgae185.
- [9] **M. Creixell, S. D. Taylor**, J. Gerritsen, **S. Y. Bae**, M. Jiang, T. Augustin, **M. Loui, C. Boixo**, P. Creixell, F. M. White, and **A. S. Meyer**, "Dissecting signaling regulators driving AXL-mediated bypass resistance and associated phenotypes by phosphosite perturbations," *bioRxiv [Preprint]*, Oct. 2023.
- [10] **B. Orcutt-Jahns, P. C. Emmel, E. M. Snyder, S. D. Taylor, and A. S. Meyer**, "Multivalent, asymmetric IL-2–Fc fusions show enhanced selectivity for regulatory T cells," *Science Signaling*, Oct. 2023, doi: 10.1126/scisignal.adg0699.
- [11] S. R. Peyton, L. W. Chow, S. D. Finley, A. N. F. Versypt, R. Hill, M. L. Kemp, E. M. Langer, A. P. McGuigan, **A. S. Meyer**, S. K. Seidlits, K. Roy, and S. M. Mumenthaler, "Synthetic living materials in cancer biology," *Nature Reviews Bioengineering*, Oct. 2023, doi: 10.1038/s44222-023-00105-w.
- [12] A. Q. Terry, H. Kojima, R. A. Sosa, F. M. Kaldas, **J. L. Chin**, Y. Zhenga, B. V. Naini, D. Noguchi, J. Nevarez-Mejia, Y.-P. Jin, R. W. Busuttill, **A. S. Meyer**, D. W. Gjertson, J. W. Kupiec-Weglinski, and E. F. Reed, "Disulfide-HMGB1 signals through TLR4 and TLR9 to induce inflammatory macrophages capable of innate-adaptive crosstalk in human liver transplantation," *American Journal of Transplantation*, Aug. 2023, doi: 10.1016/j.ajt.2023.08.002.
- [13] **Z. C. Tan**, A. Lux, M. Biburger, P. Varghese, **S. Lees**, F. Nimmerjahn, and **A. S. Meyer**, "Mixed IgG Fc immune complexes exhibit blended binding profiles and refine FcR affinity estimates," *Cell Reports*, Jul. 2023, doi: 10.1016/j.celrep.2023.112734.

- [14] S. M. Gross, **F. Mohammadi**, C. Sanchez-Aguila, P. J. Zhan, **A. S. Meyer**, and L. M. Heiser, "Analysis and modeling of cancer drug responses using cell cycle phase-specific rate effects," *Nature Communications*, Jun. 2023, doi: 10.1101/2020.07.24.219907.
- [15] **J. L. Chin**, L. C. Chan, M. R. Yeaman, and **A. S. Meyer**, "Tensor-based insights into systems immunity and infectious disease," *Trends in Immunology*, vol. 44, no. 5, pp. 329–332, May 2023, doi: 10.1016/j.it.2023.03.003.
- [16] H. Yang, U. Y. Ulge, A. Quijano-Rubio, Z. J. Bernstein, J. David R. Maestas, J.-H. Chun, W. Wang, J.-X. Lin, K. M. Jude, S. Singh, **B. T. Orcutt-Jahns**, P. Li, J. Mou, L. Chung, Y.-H. Kuo, Y. H. Ali, **A. S. Meyer**, W. L. Grayson, N. M. Heller, K. C. Garcia, W. J. Leonard, D.-A. Silva, J. H. Elisseeff, D. Baker, and J. B. Spangler, "Design of cell-type-specific hyperstable IL-4 mimetics via modular de novo scaffolds," *Nature Chemical Biology*, pp. 1552–4469, Apr. 2023, doi: 10.1038/s41589-023-01313-6.
- [17] **C. Wilder**, D. Lefaudeux, R. Mathenge, K. Kishimoto, A. Z. Munoz, M. A. Nguyen, **A. S. Meyer**, Q. J. Cheng, and A. Hoffmann, "A stimulus-contingent positive feedback loop enables IFN- β dose-dependent activation of pro-inflammatory genes," *Molecular Systems Biology*, p. e11294, Mar. 2023, doi: 10.15252/msb.202211294.
- [18] P. Kulkarni, H. S. Wiley, H. Levine, H. Sauro, A. Anderson, S. T. C. Wong, **A. S. Meyer**, P. Iyengar, K. Corlette, K. Swanson, A. Mohanty, S. Bhattacharya, A. Patel, V. Jain, and R. Salgia, "Addressing the genetic/nongenetic duality in cancer with systems biology," *Trends in Cancer*, vol. 9, no. 3, pp. 185–187, Mar. 2023, doi: 10.1016/j.trecan.2022.12.004.
- [19] H. Kim, A. Wirasaputra, **F. Mohammadi**, A. N. Kundu, J. A. E. Esteves, L. M. Heiser, **A. S. Meyer**, and S. R. Peyton, "Live Cell Lineage Tracing of Dormant Cancer Cells," *Advanced Healthcare Materials*, vol. 12, no. 14, p. 2202275, Jan. 2023, doi: 10.1002/adhm.202202275.
- [20] **F. Mohammadi**, **S. Visagan**, S. M. Gross, **L. Karginov**, **J. Lagarde**, L. M. Heiser, and **A. S. Meyer**, "A lineage tree-based hidden Markov model to quantify cellular heterogeneity and plasticity," *Communications Biology*, Nov. 2022, doi: 10.1038/s42003-022-04208-9.
- [21] D. VanDyke, M. Iglesias, J. Tomala, A. Young, J. Smith, J. A. Perry, E. Gebara, A. R. Cross, L. S. Cheung, A. G. Dykema, **B. T. Orcutt-Jahns**, T. Henclová, J. Golias, J. Balolong, L. M. Tomasovic, D. Funda, **A. S. Meyer**, D. M. Pardoll, J. Hester, F. Issa, C. A. Hunter, M. S. Anderson, J. A. Bluestone, G. Raimondi, and J. B. Spangler, "Engineered human cytokine/antibody fusion proteins expand regulatory T cells and confer autoimmune disease protection," *Cell Reports*, Oct. 2022, doi: 10.1016/j.celrep.2022.111478.
- [22] **M. Creixell**, H. Kim, **F. Mohammadi**, S. R. Peyton, and **A. S. Meyer**, "Systems approaches to uncovering the contribution of environment-mediated drug resistance," *Current Opinion in Solid State and Materials Science*, Oct. 2022, doi: 10.1016/j.cossms.2022.101005.
- [23] **M. Creixell** and **A. S. Meyer**, "Dual data and motif clustering improves the modeling and interpretation of phosphoproteomic data," *Cell Reports Methods*, Feb. 2022, doi: 10.1016/j.crmeth.2022.100167.
- [24] A. Majumder, S. Hosseinian, M. J. Stroud, E. Adhikari, J. J. Saller, D. M. A. Smith, D. G. Zhang, S. Agarwal, **M. Creixell**, B. S. Meyer, M. F. Kinose, K. S. Bowers, B. Fang, P. A. Stewart, E. A. Welsh, T. A. Boyle, **A. S. Meyer**, J. M. Koomen, and E. B. Haura, "Integrated proteomics-based physical and functional mapping of AXL kinase signaling pathways and inhibitors define its role in cell migration," *Molecular Cancer Research*, Jan. 2022, [Online]. Available: <https://mcr.aacrjournals.org/content/early/2022/01/12/1541-7786.MCR-21-0275.abstract>
- [25] **Z. C. Tan**, **B. T. Orcutt-Jahns**, and **A. S. Meyer**, "A quantitative view of strategies to engineer cell-selective ligand binding," *Integrative Biology*, Dec. 2021, [Online]. Available: <https://academic.oup.com/ib/advance-article/doi/10.1093/intbio/zyab019/6470588?guestAccessKey=d1740482-b50d-426f-b177-621426c0a5bc>

- [26] **Z. C. Tan, M. Murphy, H. S. Alpay, S. D. Taylor, and A. S. Meyer**, “Tensor-structured decomposition improves systems serology analysis,” *Molecular Systems Biology*, vol. 17, no. 9, p. e10243, Sep. 2021, doi: 10.15252/msb.202110243.
- [27] **A. M. Farhat, A. C. Weiner, C. Posner, Z. S. Kim, S. M. Carlson, and A. S. Meyer**, “Modeling Cell-Specific Dynamics and Regulation of the Common Gamma Chain Cytokines,” *Cell Reports*, Apr. 2021, doi: 10.1016/j.celrep.2021.109044.
- [28] **Z. C. Tan and A. S. Meyer**, “A general model of multivalent binding with ligands of heterotypic subunits and multiple surface receptors,” *Mathematical Biosciences*, p. 108714, 2021, doi: 10.1016/j.mbs.2021.108714.
- [29] **S. Y. Bae, N. Guan, R. Yan, K. Warner, S. D. Taylor, and A. S. Meyer**, “Measurement and models accounting for cell death capture hidden variation in compound response,” *Cell Death & Disease*, vol. 11, no. 4, p. 255, 2020, doi: 10.1038/s41419-020-2462-8.
- [30] C.-H. Lee, T. H. Kang, O. Godon, M. Watanabe, G. Delidakis, C. M. Gillis, D. Sterlin, D. Hardy, M. Cogné, L. E. Macdonald, A. J. Murphy, N. Tu, J. Lee, J. R. McDaniel, E. Makowski, P. M. Tessier, **A. S. Meyer**, P. Bruhns, and G. Georgiou, “An engineered human Fc domain that behaves like a pH-toggle switch for ultra-long circulation persistence,” *Nature Communications*, vol. 10, no. 1, p. 5031, Nov. 2019, doi: 10.1038/s41467-019-13108-2.
- [31] **A. S. Meyer** and L. M. Heiser, “Systems biology approaches to measure and model phenotypic heterogeneity in cancer,” *Current Opinion in Systems Biology*, vol. 17, pp. 35–40, 2019, doi: 10.1016/j.coisb.2019.09.002.
- [32] K. Situ, B. A. Chua, **S. Y. Bae, A. S. Meyer**, and K. Morizono, “Versatile targeting system for lentiviral vectors involving biotinylated targeting molecules,” *Virology*, vol. 525, pp. 170–181, Dec. 2018, doi: 10.1016/j.virol.2018.09.017.
- [33] A. M. Claas, L. Atta, S. Gordonov, **A. S. Meyer**, and D. A. Lauffenburger, “Systems Modeling Identifies Divergent Receptor Tyrosine Kinase Reprogramming to MAPK Pathway Inhibition,” *Cellular and Molecular Bioengineering*, Jul. 2018, doi: 10.1007/s12195-018-0542-y.
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- [35] **R. A. Robinett, N. Guan, A. Lux, M. Biburger, F. Nimmerjahn, and A. S. Meyer**, “Dissecting FcγR Regulation Through a Multivalent Binding Model,” *Cell Systems*, Jun. 2018, doi: 10.1016/j.cels.2018.05.018.
- [36] **A. Zweemer, C. B. French, J. Mesfin, S. Gordonov, A. S. Meyer, and D. A. Lauffenburger**, “Apoptotic Bodies Elicit Gas6-mediated Migration of AXL-expressing Tumor Cells,” *Molecular Cancer Research*, 2017, doi: 10.1158/1541-7786.mcr-17-0012.
- [37] A. D. Schwartz, L. E. Barney, L. E. Jansen, T. V. Nguyen, C. L. Hall, **A. S. Meyer**, and S. Peyton, “A Biomaterial Screening Approach to Reveal Microenvironmental Mechanisms of Drug Resistance,” *Integrative Biology*, 2017, doi: 10.1039/c7ib00128b.
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- [39] **S. Manole, E. J. Richards, and A. S. Meyer**, “JNK Pathway Activation Modulates Acquired Resistance to EGFR/HER2-Targeted Therapies,” *Cancer Research*, vol. 76, no. 18, pp. 5219–5228, Sep. 2016, doi: 10.1158/0008-5472.can-16-0123.
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Inhibitor Resistance ,” *Cancer Discovery*, vol. 6, no. 4, pp. 331–333, Apr. 2016, doi: 10.1158/2159-8290.cd-15-0933.

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- [44] **A. S. Meyer**, **A. J. M. Zweemer**, and D. A. Lauffenburger, “The AXL Receptor Is a Sensor of Ligand Spatial Heterogeneity,” *Cell Systems*, vol. 1, no. 1, pp. 25–36, Jun. 2015, doi: 10.1016/j.cels.2015.06.002.
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- [47] **A. S. Meyer**, S. K. Hughes-Alford, **J. E. Kay**, **A. Castillo**, A. Wells, F. B. Gertler, and D. A. Lauffenburger, “ 2D protrusion but not motility predicts growth factor–induced cancer cell migration in 3D collagen ,” *The Journal of Cell Biology*, vol. 197, no. 6, pp. 721–729, Jun. 2012, doi: 10.1083/jcb.201201003.
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- [49] H.-D. Kim, **A. S. Meyer**, J. P. Wagner, S. K. Alford, A. Wells, F. B. Gertler, and D. A. Lauffenburger, “ Signaling network state predicts Twist-mediated effects on breast cell migration across diverse growth factor contexts ,” *Molecular & Cellular Proteomics*, vol. 10, no. 11, pp. 1–12, Nov. 2011, doi: 10.1074/mcp.M111.008433.
- [50] Y.-S. Tsao, A. Merchant, **A. Meyer**, Z. Liu, M. Smith, D. Levitan, and E. Gustafson, “ Integrated Pathway Analysis of Genome-Wide Expression Changes Associated with Serum-Free Suspension Adaptation of an Antibody-Producing Chinese Hamster Ovary (CHO) Cell Line ,” *Animal Cell Technology: Basic & Applied Aspects*, vol. 16. in *Animal Cell Technology: Basic & Applied Aspects*, vol. 16. pp. 27–32, Mar. 2010. doi: 10.1007/978-90-481-3892-0_5.
- [51] F. Mashayekhi, **A. S. Meyer**, S. A. Shiigi, V. Nguyen, and D. T. Kamei, “Concentration of mammalian genomic DNA using two-phase aqueous micellar systems,” *Biotechnology and Bioengineering*, vol. 102, no. 6, pp. 1613–1623, Nov. 2009, doi: 10.1002/bit.22188.
- [52] S. A. Shiigi, **A. S. Meyer**, and D. T. Kamei, “Enhancing the Detection of Urinary Tract Infections Using Two-Phase Aqueous Micellar Systems,” *The UCLA USJ*, pp. 47–56, 2009.

RESEARCH SUPPORT

Contact PI on all grants unless indicated otherwise.

NIH NIAID U01-AI179524 (Co-I)

2024–2029

“Systems Analyses of Induction and Maintenance of Immunity to SARS-CoV-2 Vaccination in Kidney Transplant Recipients Receiving Mycophenolate Mofetil Immunotherapy”

NSF 2404470 (Co-I) "Multi-analyte Detection Enabled by Machine Learning-Guided Voltammetry" Division: CHE Research and Development	2024–2027
NIH NEI R01-EY011996 (Co-I) "Retinal Disease: Molecular Basis and Pathophysiology"	2023–2027
NIH NIAID U19-AI172713 (Co-PI) Systems Biology for Infectious Diseases Consortium "Systems Epigenomics of Persistent Bloodstream Infection"	2023–2028
Emerging Leader Award, Mark Foundation for Cancer Research "Tracking and Reactivating Humoral Immunity through Systems Serology"	2023–2025
SEEDS Grant Merck & Co., Inc. "Systematic and Receptor-Specific Dissection of Fc Receptor Functions"	2023–2024
NIH NIAID P01-AI120944 (Co-I) Transplant Immunology Program Project Grant "Innate-Adaptive Immunoregulation in Liver Transplant Ischemia/Reperfusion Injury"	2022–2027
COVID Relief Funds, Vice Chancellor for Research Office	2022
Administrative Supplement to U01-CA215709 "Mechanistic Autoencoders for Patient-Specific Phosphoproteomic Models"	2020–2021
Grant Jayne Koskinas Ted Giovanis Foundation "Cell cycle-specific drug responses in breast cancer"	2020–2022
American Cancer Society, Research Scholar Grant (co-I) "Tissue-engineered models of glioblastoma for evaluating treatment responses"	2020–2023
NIH NIAID U01-AI148119 Fc-Dependent Mechanisms of Antibody-Mediated Killing Consortium "Mapping the effector response space of antibody combinations"	2019–2024
UCLA Faculty Career Development Award	2019–2020
UCLA Hellman Fellow "Engineering anti-tumor antibody combinations for more effective and less toxic therapies"	2019–2020
Visterra, Inc. Research Agreement "IL-2 Receptor Binding Engineering"	2019–2021
Administrative Supplement to U01-CA215709 "Cell lineage analysis to quantify heterogeneous cell cycle responses of cancer cells"	2018–2019
NIH NCI U01-CA215709 Cancer Systems Biology Consortium "Precision Lung Cancer Therapy Design through Multiplexed Adapter Measurement"	2017–2022
Fellowship Grant Terri Brodeur Breast Cancer Foundation "Decoding the Role of TAM Receptors <i>In Vivo</i> Using More Specific and Potent Inhibitors"	2017–2019
AMIGOS Program Award Jayne Koskinas Ted Giovanis Foundation and Breast Cancer Research Foundation "Understanding the Role of Cell Plasticity in Mediating Drug Resistance"	2016–2020
GPU Grant NVIDIA Corporation "Parameterizing Stochastic Cell Signaling Pathways Through Variability Fitting"	2016

<i>Frontier Research Program Initiator Award</i> Koch Institute for Integrative Cancer Research “Multiplexed Tools for Probing Chemokine Receptor Activation State in Breast Cancer”	2015
<i>NIH Director’s Early Independence Award, DP5-OD019815</i> “Adapter-Layer RTK Signaling: Basic Understanding & Targeted Drug Resistance”	2014–2019
<i>Whitaker Fellowship</i> Massachusetts Institute of Technology	2013
<i>Repligen Fellowship in Cancer Research</i> Koch Institute for Integrative Cancer Research	2012
<i>Frontier Research Program Initiator Award</i> Koch Institute for Integrative Cancer Research “Global Growth Factor Reprogramming and Invasion By AXL Expression And Shedding In Breast Carcinoma”	2011
<i>Breast Cancer Research Predoctoral Fellowship</i> Department of Defense, W81XWH-11-1-0088 “Molecular Regulatory Network Dysregulation in Breast Cancer Cell Migration & Invasion”	2010–2014
<i>Graduate Research Fellowship</i> National Science Foundation	2009–2014
<i>Momenta Presidential Fellowship</i> Massachusetts Institute of Technology	2009

TEACHING EXPERIENCE

Instructor <i>Machine Learning & Data-Driven Modeling in Bioengineering</i> • Designed and lead project-based course tailored to the background of students in the program	<i>UCLA, Department of Bioengineering</i> 2018–Present
Instructor <i>Bioengineering Laboratory</i> • Lab-based introduction to basics of experimental design and laboratory work in bioengineering	<i>UCLA, Department of Bioengineering</i> 2018–2024
Guest Speaker <i>Bioinformatics 202</i> • Discussed our lab’s research and related topics in bioinformatics.	<i>UCLA, Bioinformatics Interdepartmental Program</i> 2023
Guest Lecturer <i>Fundamentals of Digital Imaging and Image Processing</i> • Led discussion of a paper from the lab used as a project within the class	<i>UCLA, Molecular, Cell, and Developmental Biology</i> 2021, 2022
Discussion Leader <i>Ethics and Accountability in Biomedical Research</i> • Led discussion of various ethics case studies	<i>UCLA, Microbiology, Immunology, & Molecular Genetics</i> 2021, 2024
Advisor & Instructor <i>Integrated and Interdisciplinary Undergraduate Research Program</i> • Advised program participants on developing research, presentation, and professional skills	<i>UCLA, Undergraduate Research Center</i> 2019–2023
Team Mentor <i>Capstone Design</i> • Poster competition winning team: 2018, 2019	<i>UCLA, Department of Bioengineering</i> 2017, 2018, 2019, 2020
Guest Speaker <i>Introduction to Bioengineering</i> • Guest speaker to discuss research program and opportunities in bioengineering	<i>UCLA, Department of Bioengineering</i> 2017, 2019, 2020, 2023, 2024

- Led a short course introducing students to the natural sciences and scientific method

Teaching Assistant

MIT, Department of Biological Engineering

Thermodynamics of Biomolecular Systems

2010

CONFERENCE & INVITED PRESENTATIONS (LAST FIVE YEARS)

Maintaining Immunity After Immunization Kickoff Meeting, Invited Oral Presentation “Systems analyses of induction and maintenance of immunity to SARS-CoV-2 vaccination in KTx receiving MMF.”	Nov 2024
UCLA, Bioengineering, Invited Dept. Seminar “Building an integrative view of immunity with tensors.”	Oct 2024
Massachusetts Institute of Technology, Biological Engineering, Invited Oral Presentation “Experiment structure is the message: building an integrative view of immunity with tensors.”	Sep 2024
UCLA Bruins-In-Genomics Summer Program, Invited Oral Presentation “Experiment structure is the message: building an integrative view of immunity with tensors.”	Jul 2024
Fc Mechanisms of Cell Killing Workshop, Invited Oral Presentation “Mapping the effector response space of antibody combinations”	Jun 2024
NIAID Systems Biology Consortium Webinar, Invited Oral Presentation “Tensor Modeling of Clinical Outcomes in <i>S. aureus</i> Bacteremia.”	May 2024
Cytokine Based Drug Development Summit, Invited Oral Presentation “New Cytokine Targeting Strategies Enabled by Multivalent Cis-Targeted Complexes.”	May 2024
Tracer Precision Health Workshop, Invited Oral Presentation “Mechanistic, integrative, and high-resolution dissection of single-cell studies with PARAFAC2.”	Apr 2024
Systems Immunology in Transplantation: Advances, Challenges, and Opportunities, Invited Oral Presentation “Integration of multi-modal and multidimensional analysis.”	Mar 2024
Cancer Systems Biology Program, Invited Oral Presentation “Analysis and modeling of cancer drug responses using cell cycle phase-specific rate effects.”	Dec 2023
Systems Biology Consortium for Infectious Diseases, Invited Oral Presentation “Developing integrative signatures across omics, studies, and diseases with tensor-based analysis.”	Sep 2023
UCLA Bioinformatics Retreat, Invited Oral Presentation “Building the tensor learning universe.”	Jul 2023
Antibodies & Complement, Selected Oral Presentation “Cancer systems serology reveals active humoral immunity but disrupted Fc-elicited interactions.”	Jun 2023
CSBC Annual Meeting, Invited Oral Presentation “Phosphoproteomic Analysis of AXL Identifies YAP as a Key Regulator of Resistance.”	Mar 2023
SIAM Conference on Mathematics of Data Science, Invited Podium Presentation “Mechanistic and Data-Driven Dissection of Cell Communication Through Tensor Methods.”	Sep 2022
UCLA Musculoskeletal Devices & Tech. Development Group, Invited Seminar “Uncovering immunologic mechanisms of MRSA persistence by tensor-mediated data integration.”	Sep 2022

Southern California Systems Biology Conference, Invited Podium Presentation "Mechanistic and Data-Driven Dissection of Cell Communication Through Tensor Methods."	Apr 2022
American Assoc. for Cancer Research Annual Meeting, Invited Podium Presentation "Systems approaches for identifying cell states and pathways modulating therapy response."	Apr 2022
Johns Hopkins Univ., Institute for Comp. Medicine, Invited Seminar "Mechanistic and Data-Driven Dissection of Cell Communication Through Tensor Methods."	Feb 2022
Cellular & Molecular Bioengineering, Selected Oral Presentation "Rapid Prototyping of Multivalent And Multi-Specific Drugs To Overcome The Limited Selectivity Of IL-2 Toward Regulatory T Cells"	Jan 2022
Biomedical Engineering Society Annual Meeting, Invited Podium Presentation "Tensor Factorization-Based Data Fusion Improves Predictions and Interpretation of MRSA Outcome."	Oct 2021
Buffalo Quantitative Systems Pharmacology Symposium, Invited Speaker "Deeply profiling pharmacodynamic response with single cell dynamics."	Jul 2021
CSHL Systems Immunology, Selected Oral Presentation "Developing a Mechanistic View of Mixed IgG Antibody Immune Effector Responses."	Apr 2021
University of Massachusetts, Mol & Cell Biol Program, Invited Seminar "Mixture models of cell populations and signaling to understand heterogeneous drug response."	Mar 2021
International Conference on Biomolecular Engineering, Selected Oral Presentation "Developing a Mechanistic View of Mixed IgG Antibody Immune Effector Responses."	Jan 2021
Vanderbilt University, QSBC Center, Invited Center Seminar "Mixture models of cell populations and signaling to understand heterogeneous drug response."	Oct 2020
Tufts University, Dept. of Bioengineering, Invited Dept. Seminar "Linking Statistical and Mechanistic Models for Drug Development."	Mar 2020
Univ. of Calif., Los Angeles, Immunogenetics Center, Invited Speaker "Using models with incomplete information to study and engineer antibody effector response."	Jan 2020
Biomedical Engineering Society Annual Meeting, Selected Oral Presentation "A Binding Model Predicts In Vivo Effector Cell-Elicited Killing Across Multiple Disease Models."	Oct 2019
Xencor, Inc., Invited Oral Presentation "Computational molecular models for immune engineering."	Jul 2019
CSBC West Coast Meeting, Selected Oral Presentation "Hidden Markov models on a tree as a general approach to single cell plasticity analysis."	May 2019
Antibodies & Complement, Selected Oral Presentation "A Multivalent Binding Model Predicts FcyR Regulation and Effector Cell-Elicited Killing."	May 2019

RESEARCH SUPERVISION

Postdoctoral Fellows

- Catera Wilder, Ph.D. (Assistant Professor, UCSF) 2018–2022
- Song Yi Bae, Ph.D. (Senior Scientist, Astrin Biosciences) 2016–2019
- Edward Richards, Ph.D. (Senior Scientist, Dragonfly Therapeutics) 2015–2020
 - American Cancer Society Postdoctoral Fellowship
- Annelien Zweemer, Ph.D. (Assistant Professor, Leiden University) 2014–2017

Ph.D. Students

• Meera Trisal	2023–Present
• Michelle Loui	2022–Present
▸ SURF Fellowship, UCLA Graduate Division	
• Andrew Ramirez	2021–Present
▸ NSF Graduate Research Fellowship	
▸ Cota Robles Fellowship	
▸ UCLA EDI Student Leadership Award	
• Jackson Chin	2020–2025
▸ Best Poster Award, QC Bio Retreat, 2022	
• Brian Orcutt-Jahns (Postdoctoral Associate, Genentech)	2019–2024
▸ Best Poster Award, CSBC Junior Investigator Meeting	
▸ Best Poster Award, Cytokine Society	
▸ Best Presentation Award, Los Angeles Bioscience Ecosystem Summit	
▸ Outstanding Ph.D. Award, Department of Bioengineering	
• Cyrillus Tan	2019–2024
▸ Dissertation Year Fellowship, UCLA Graduate Division	
• Farnaz Mohammadi (Postdoctoral Associate, Genentech)	2018–2023
▸ Dissertation Year Fellowship, UCLA Graduate Division	
• Marc Creixell (Scientist, Calico Life Sciences)	2018–2023
▸ JCCC Fellowship	

M.S. Students

• Het Desai	2023–2024
• Manmeet Bains	2023–2024
• Enio Hodzic (Machine Learning Algorithm Engineer, Adaptive Dynamics)	2021–2023
• Madeleine Murphy (Computational Biologist, Broad Institute)	2020–2022

Undergraduate Students

• Jamie Stickelmaier	2021–2023
• Ethan Hung (Amgen Scholar, Berkeley)	2021–2024
• Eva Hunter	2021–2022
• Hakan Alpay (Frontend Engineer, Facebook)	2021
• Luka Karginov (NCI CSBC Summer Scholar; Ph.D., Biological Engineering, MIT)	2020–2021
• Aditya Sivakumar	2020–2021
• Eli Snyder (M.D., University of Hawaii)	2020–2021
• Peter Emmel	2019–2022
• Amanda Tsao (M.D., University of Southern California)	2019–2021
• JC Lagarde	2019–2022
• Sumedha Kanthamneni (Google)	2019–2022
• Heather Carmen Mercieca (Amgen Scholar)	2019
• Linnet Chang (Analyst, Accenture)	2018–2021
• Stephen Lees (Ph.D., Biomedical Engineering, UVA)	2018–2021
• Zoe Kim (Engineer, GaN Corporation)	2018–2020
• Micah Bryant (M.S., Mechanical Engineering, UCSD)	2018–2020
• Robby Theisen (Ph.D., Biomedical Engineering, University of Michigan)	2018–2020
• Alison Tran (Biosciences Account Manager, Thermo Fisher Scientific)	2018–2020
• Willie Wu (Software Engineer, Rivian)	2018–2019
• Katrina Warner (Amgen Scholar; Ph.D., Biomedical Sciences, Harvard)	2018
• Donya Khashayar (Transfer Student Summer Research Program)	2018
• Rui Yan (Ph.D., ICME, Stanford)	2017–2019
▸ Cathy Bank Scholarship	
• Ali Farhat (M.D./Ph.D., U Illinois)	2017–2019

- Rose Hills Foundation Scholar
- Adam Weiner (Ph.D., Tri-Institute CompBio) 2017–2019
 - Internet Research Initiative Award
- Ning Guan (Ph.D., Systems Biology, Harvard) 2015–2017
- Ryan Robinett (Ph.D., Comp. Sci., U. Chicago) 2015–2017
 - National Science Foundation Graduate Research Fellowship

SERVICE

Profession

Co-Chair, <i>Modeling Working Group, Systems Biology for Infectious Diseases Consortium</i>	2023–Present
Webmaster, <i>BME Underrepresented Needs In Technology & Engineering (UNITE)</i>	2022–Present
Co-Organizer, <i>BME UNITE Webinar Series</i>	2021–Present
Chalk Talk Mentor, <i>BME Underrepresented Needs In Technology & Engineering (UNITE)</i>	2024–Present
Organizer, <i>Sys. Immunol. Approaches in Transplantation Tolerance and Rejection Conference</i>	2024–2025
Poster Judge, <i>Immunology LA Conference</i>	2024
Ad Hoc External Tenure Case Evaluator, <i>University of California, San Diego</i>	2024
Ad Hoc Reviewer, <i>Cell</i>	2024
Ad Hoc Reviewer, <i>La Matematica</i>	2024
Reviewer, <i>National Centre of Competence in Research, Swiss National Science Foundation</i>	2024
Ad Hoc Reviewer, <i>Genome Medicine</i>	2024
Ad Hoc Study Section, <i>NCI Human Tumor Atlas Network</i>	2024
Ad Hoc Reviewer, <i>Metabolomics</i>	2023
Ad Hoc Reviewer, <i>Cancer Gene Therapy</i>	2023
Ad Hoc Reviewer (4x), <i>Science Signaling</i>	2020–2023
Ad Hoc Reviewer (3x), <i>Science Advances</i>	2020–2023
Track Chair: Computational & Systems Biology, <i>Biomedical Engineering Society Annual Meeting</i>	2023
Abstract Reviewer, <i>UC Systemwide Bioengineering Symposium</i>	2023
F31 Co-Sponsor, <i>Mollie Harrison (Advisor Stephanie Seidlits, University of Texas, Austin)</i>	2022
Ad Hoc Reviewer, <i>Cancer Immunology Research</i>	2022
Co-Chair, <i>Resource & Data Sharing Working Group, Cancer Systems Biology Consortium</i>	2022–2024
Ad Hoc Reviewer, <i>iScience</i>	2022
Poster Judge, <i>Cellular & Molecular Bioengineering Meeting</i>	2022
Example U01 proposal, <i>NIH National Institute of Allergy and Infectious Diseases</i>	2021
Reviewer, <i>Australia Medical Research Future Fund</i>	2022
Local Organizing Committee, <i>Southern California Systems Biology Conference</i>	2022
Ad Hoc Reviewer, <i>Soft Matter</i>	2022
Ad Hoc Reviewer, <i>FEBS Letters</i>	2021
Abstract Reviewer, <i>Biomedical Engineering Society Annual Meeting</i>	2021, 2022
Financial Officer, <i>Association of Cancer Systems Biologists</i>	2021–Present
Session Co-Chair, <i>Biomedical Engineering Society Annual Meeting</i>	2020
Volunteer Speed Interviewer, <i>Biomedical Engineering Society Annual Meeting</i>	2020
Volunteer Resume Reviewer, <i>Biomedical Engineering Society Annual Meeting</i>	2020
Member, <i>BME Underrepresented Needs In Technology & Engineering (UNITE)</i>	2020–Present
Panelist, <i>Amgen Scholars Summer Science Series</i>	2020
Ad Hoc Reviewer, <i>PLOS Biology</i>	2020, 2021
Ad Hoc Reviewer, <i>Cancer Research</i>	2020
External Reviewer, <i>Ming Hsieh Institute, USC</i>	2020
Ad Hoc Reviewer, <i>Cell Systems</i>	2020
Ad Hoc Reviewer, <i>APL Bioengineering</i>	2020
Ad Hoc Reviewer, <i>Integrative Biology</i>	2019
Ad Hoc Reviewer, <i>Scientific Reports</i>	2019
Ad Hoc Reviewer, <i>PNAS</i>	2019
Ad Hoc Reviewer, <i>Current Opinion in Systems Biology</i>	2019

Co-Chair, <i>Association of Cancer Systems Biologists</i>	2017–2021
Ad Hoc Reviewer, <i>PLOS Computational Biology</i>	2018, 2024
Interviewee, <i>Prescriber Magazine</i>	2017
Ad Hoc Reviewer, <i>WIREs Systems Biology and Medicine</i>	2017
Ad Hoc Remote Reviewer, <i>Irish Research Council</i>	2017
Ad Hoc Reviewer, <i>Cell Reports</i>	2017, 2023
Graduate Research Fellowship Program Review Panelist, <i>National Science Foundation</i>	2016–2017
Meeting Organizer & Member, <i>Association of Early Career Cancer Systems Biologists</i>	2015–2016
Ad Hoc Reviewer, <i>Biomedical Engineering Society Annual Meeting</i>	2016
Ad Hoc Reviewer, <i>Drug Discovery Today</i>	2016
Ad Hoc Reviewer, <i>Molecular Cell</i>	2015
Member, <i>Biomedical Engineering Society</i>	2010–Present
Coordinator, <i>MIT Biological Engineering Graduate Student Board</i>	2010–2013
Ad Hoc Reviewer, <i>Oncogene</i>	2013
Ad Hoc Reviewer, <i>Nature</i>	2013
Member, <i>MIT Biological Engineering Retreat Organizing Committee</i>	2010–2012
Ad Hoc Reviewer, <i>J. Cell Biol.</i>	2011–2012

School & Campus

Bioengineering Representative, <i>HSSEAS GPU Ad Hoc Committee</i>	2024
Member, <i>Hiring Committee, Hispanic Serving Institution STEM Faculty Director</i>	2024
Member, <i>HSSEAS Strategic Planning Committee</i>	2024
Chair, <i>Campus Response to the Climate Crisis Special Committee, Faculty Senate</i>	2023–Present
Ad Hoc Member, <i>Executive Board, Faculty Senate</i>	2023–Present
Faculty Speaker, <i>UCLA Life Sciences Webinar Series</i>	2023
Dean's Prize Poster Judge, <i>Undergraduate Research and Creativity Showcase</i>	2023
Poster Judge, <i>Jonsson Cancer Center Annual Retreat</i>	2023
Reviewer, <i>Tau Beta Pi Chapter Excellence Scholarship</i>	2021–2023
Selection Committee, <i>Faculty Career Development Award, Office of Equity, Diversity and Inclusion</i>	2022
Faculty Participant, <i>Coffee Chat Series, Computational & Systems Biology</i>	2022
Member, <i>Minors Committee, Computational & Systems Biology</i>	2021–2023
Panelist, <i>Graduate School Panel, Computational & Systems Biology</i>	2021
Faculty Representative, <i>Samueli Engineering Grad School Info Session</i>	2020
Faculty Representative, <i>Annual Biomedical Research Conference for Minority Students</i>	2018, 2020
Curriculum Advisory Committee, <i>Computational & Systems Biology</i>	2020–Present
Written Qualifying Exam Evaluator, <i>Bioinformatics IDP</i>	2020
Mentor, <i>B.I.G. Summer</i>	2020–2024
Member, <i>SPUR "Life of a Faculty Member" Panel</i>	2020
Ad Hoc Member, <i>HSSEAS Faculty Executive Committee</i>	April 2020
Application Reviewer, <i>Amgen Scholars Program</i>	2020, 2022, 2023, 2024
Reviewer, <i>Graduate Division's Faculty Review Committee</i>	2020
Faculty Volunteer, <i>Society of Women Engineers Recruitment Dinner</i>	2019, 2020
Member, <i>HSSEAS SEASnet Review Committee</i>	2019
Faculty Advisor, <i>Tau Beta Pi</i>	2017–Present
Faculty Volunteer, <i>Amgen Scholars Symposium</i>	2018–2024
Member, <i>HSSEAS Awards Committee for Outstanding Student Awards</i>	2018
Faculty Speaker, <i>UCLA Engineering Alumni Reunion</i>	2018

Department

Member, <i>Ad Hoc Promotion Committee</i>	2023, 2024
Poster Judge, <i>Bioengineering Research Day</i>	2024
Equity, Diversity, & Inclusion Panel Member, <i>Biomedical Engineering Society</i>	2024
Member, <i>Ad Hoc P&T Committee</i>	2023
Judge, <i>Biomedical Engineering Society BioHack</i>	2022–2023

Member, <i>Diversity, Equity and Inclusion Committee</i>	2021–2024
Member, <i>Bioengineering Hiring Search Committee</i>	2021–2022, 2023–2024, 2024–2025
Member, <i>Teaching Facility & Shared Equipment Committee</i>	2021–2024
Member, <i>Strategic Planning Committee</i>	2020
Co-Chair, <i>Bioengineering and Computational Medicine Joint Hiring Search</i>	2019–2020
Field Chair, <i>Biosystem Science and Engineering</i>	2019–Present
Co-Chair, <i>Graduate Admissions Committee</i>	2019–Present
Member, <i>Undergraduate Curriculum Committee</i>	2019–Present
Member, <i>Bioengineering Alumni Committee</i>	2018–Present
Chair, <i>Department of Bioengineering Seminar Series</i>	2018–2019
Member, <i>Publicity Committee</i>	2017–2018

PATENTS & DISCLOSURES

A.S. Meyer. “Methods of Identifying and Correcting Tumor Humoral Immune Dysregulation.” U.S. patent application PCT/US24/32940, 2024.

Orcutt-Jahns, B., P.C. Emmel, A.S. Meyer. “Multi-specific engineered cytokines.” U.S. patent application PCT/US24/32940, 2023.

A.S. Meyer. “Altering cytokine specificity through binding valency.” U.S. patent application PCT/US22/35711, 2022.

Miller, M.A., M.J. Oudin, A.S. Meyer, L.G. Griffith, F.B. Gertler, D.A. Lauffenburger. “Methods of Reducing Kinase Inhibitor Resistance.” US patent application 14/690,001, 2015.

THESIS COMMITTEE MEMBERSHIP

Daniel Bradbury, Bioengineering (Ph.D.)

Advisor: Daniel Kamei
2017–2020

Hiroshi Miwa, Bioengineering (Ph.D.)

Advisor: Dino Di Carlo
2019–2022

Rob Dimatteo, Bioengineering (Ph.D.)

Advisor: Dino Di Carlo
2019–2021

Hector E Muñoz, Bioengineering (Ph.D.)

Advisor: Dino Di Carlo
2019–2020

Mohammadali Alidoost, Bioengineering (Ph.D.)

Advisor: Jennifer Wilson
2021–2024

Felis Doyeon Koo, Bioengineering (Ph.D.)

Advisor: Dino Di Carlo
2021–2023

Connor Razma, Bioinformatics (M.S.)

Advisor: Alexander Hoffmann
2022–2023

Nilay Shah, Computer Science (M.S.)

Advisor: Bolei Zhou
2022–2023

Giovanni Valdez, Bioengineering (Ph.D.)

Advisor: Grace Xiao
2018–2021

Mark van Zee, Bioengineering (Ph.D.)

Advisor: Dino Di Carlo
2019–2022

Alexander Wickstrom, Bioengineering (M.S.)

Advisor: Jonathan Kao
2019–2019

Wei-Chia Elizabeth Luo, Bioengineering (Ph.D.)

Advisor: Gerard Wong
2020–2025

Cameron S. Movassaghi, Chemistry (Ph.D.)

Advisor: Anne M. Andrews
2021–2024

Favour Esedebe, Bioinformatics (Ph.D.)

Advisor: Tom Graeber
2021–2025

Mai Tran, Earth, Planetary & Space Sci. (Ph.D.)

Advisor: William Newman
2022–2023

Rayo Suseno, Bioengineering (M.S.)

Advisor: Jennifer Wilson
2022–2023

Helen Huang, Bioinformatics (Ph.D.)

Advisor: Alexander Hoffman

2022–Present

Emily Bozich, Bioengineering (Ph.D.)

Advisor: Jennifer Wilson

2023–Present

Seth Hilliard, Comp. & Quant. Medicine (Ph.D.)

Advisor: Andrei Rodin (City of Hope)

2023–2023

Michael Mellody, Bioengineering (Ph.D.)

Advisor: Dino Di Carlo

2023–Present

Ahmed Ali, Bioengineering (M.S.)

Advisor: Jennifer Wilson

2023–2024

Alejandro Miron Jabalera, Bioengineering (Ph.D.)

Advisor: Tzung Hsiai

2024–Present

Calvin Lee, Bioengineering (M.S.)

Advisor: Roel Ophoff

2024–Present

Yuyang Han, Chemistry (Ph.D.)

Advisor: Anne Andrews

2024–Present

Shawn Liu, Bioengineering (M.S.)

Advisor: Jennifer Wilson

2023–2024

Jingwen Sun, Chemistry & Biochemistry (Ph.D.)

Advisor: Chong Liu

2023–Present

Frances Nicklen, Bioengineering (Ph.D.)

Advisor: Daniel Kamei

2023–Present

Citra Soemardy, Bioengineering (Ph.D.)

Advisor: Dino Di Carlo

2023–Present

Shivani Kumar, Bioengineering (M.S.)

Advisor: Mireille Kamariza

2024–2024

Katarina Reid, Bioengineering (M.S.)

Advisor: Joseph DiStefano

2024–2025

Dexter Lai, Bioengineering (Ph.D.)

Advisor: Jun Park

2024–Present