

NLM Training Program in Biomedical Informatics and Data Science:

Current Trainees, and Former Trainees from 2002 – present

The NLM Training Program began in 1992. Trainees from 2002 onwards are included here.

NLM Current Trainees – as of May 3, 2024

Predocutorial Trainees (PhD students)

Trainee	Mentors	Project Title	Training Period
Alex “Cito” Balsells, RU (Rice University)	Beatrice Rivière, RU; David Fuentes, MDA (UT MD Anderson Cancer Center)	Improving Data Acquisition with Semi-automatic Techniques	01/01/22 - 12/31/24
Matthew Cheung, RU	Ashok Veeraraghavan, RU; Guha Balakrishnan, RU; Laurence Court, MDA	Effectively Communicating Uncertainties in Medical Image Reconstruction	06/16/23 - 06/15/25
Bryce Kille, RU	Todd Treangen, RU; Fritz Sedlazeck, BCM (Baylor College of Medicine)	Elucidating Complex Genomic Variation Linked to Human Disorders and Disease Via Improved Algorithms for Large-scale Multiple Genome Alignment	12/01/21 - 11/30/24
Rongbin “Leon” Li, UTH (UT Health Science Center at Houston)	Wenjin Jim Zheng, UTH; Xiaoqian Jiang, UTH	Large Language Model in Drug Combination Prediction	06/30/23 - 06/29/25
Daniel Palacios, BCM	Zhandong Liu, BCM; Elmer Bernstam, UTH	Foundation AI Models and AutoML Approaches for Clinical Informatics	12/01/23 - 11/30/24
Jared Slone, RU	Lydia Kavradi, RU; Alexandre Reuben, MDA	TCR-pMHC Binding Affinity Prediction with Applications to Personalized Immunotherapy	05/01/23 - 04/30/25
Christina van Hal, UTH	Todd Johnson, UTH; Elmer Bernstam, UTH	Robust Assessment of Health Care Data Quality for Estimating Causal Effects	01/01/24 - 12/31/24
Evan Yu, UTH	Cui Tao, UTH; Kayo Fujimoto, UTH	Utilizing Graph Neural Network for Modeling Transmission of Sexually Transmitted Infections	01/01/22 - 12/31/24
Sajid Zaidi, UH (University of Houston)	Hien Van Nguyen, UH; Chandra Mohan, UH	Multimodal Artificial Intelligence for Nephropathology	12/01/23 - 11/30/24

Postdoctoral Trainees

Trainee	Mentors	Project Title	Training Period
Amanda Alexander, UH (University of Houston)	Krešimir Josić, UH; Matthew Bennett, RU (Rice University)	Mathematical Approaches to Understanding the Dynamics and Organization of Synthetic Multicellular Systems	05/01/24 - 04/30/25
Elisabeth Kong, MDA (UT MD Anderson Cancer Center)	Anil Korkut, MDA; Funda Meric-Bernstam, MDA	Genomic and Transcriptomic Analyses of Therapy Response Markers in Cancer	06/01/23 - 05/31/25
Thanh Le, UH	Kevin Garey, UH; Todd Treangen, RU	Resistance Development to <i>C. difficile</i> RNA Polymerase Antibiotics	06/01/23 - 05/31/24
Austin Marshall, HMRI (Houston Methodist Research Institute)	Sonia Villapol, HMRI; Todd Treangen, RU	Design and Implementation of Software for Use with Nanopore Amplicon Sequencing to Observe Alterations to the Gut Microbiome in Alzheimer's Disease Research	06/01/24 - 05/31/25
Achuth Nair, UH	Kirill Larin, UH; David Mayerich, UH; Michael Twa, UH	Patient Specific Corneal Biomechanics Guided by Machine Learning	06/30/22 - 06/29/24
Meigen Yu, MDA	Xiaodong Cheng, MDA; Cristian Coarfa, BCM (Baylor College of Medicine)	Exploring Pseudogene and lncRNA Interactions in Gene Regulation: Implications for Sickle Cell Anemia and Cancer Therapy	05/01/24 - 04/30/25

Last updated 05/03/2024

NLM Past Trainees

The NLM Training Program began in 1992. Trainees from 2002 onwards are included here.

Past Predoctoral Trainees

Trainee	Mentors	Project Title	Training Periods
Jayvee Abella, RU (Rice University)	Lydia Kavraki, RU; Cecilia Clementi, RU	Novel Computational Tools for the Conformational Analysis of Peptide-MHCs	01/01/16 - 11/17/17, 12/30/17 - 02/09/18; 03/01/18 - 02/28/19
Jonas Actor, RU	Beatrice Rivière, RU; David Fuentes, MDA (UT MD Anderson Cancer Center)	Physics-Based Machine Learning for Image Segmentation	06/30/18 - 05/15/21
Behrang Amini, UTH (UT Health Science Center at Houston)	John Byrne, UTH; John Clark, RU	A Neuronal Model of the Rat Respiratory System	01/01/02 - 06/30/04

Ben Bachman, BCM (Baylor College of Medicine)	Olivier Lichtarge, BCM; Ted Wensel, BCM	Finding Drug Targets by Evolutionary Trace Analysis of Protein Pathways	10/01/09 - 09/30/11 ARRA
Ben Bammes, BCM	Wah Chiu, BCM; David Tweardy, BCM	Modulating the Interaction between the TRiC and STAT3	06/30/10 - 06/29/11
Rosa Banuelos, RU	Suzanne Leal, BCM; Marek Kimmel, RU	Methods for Detecting Complex Trait-Rare Variant Associations: Application to Next Generation Sequence Data	05/16/11 - 05/11/13
Michael Bolt, BCM	Mike Mancini, BCM; Marek Kimmel, RU	A Systems Biology Level Analysis of Estrogen Receptor- α Transcription at the Single Cell Level	10/01/09 - 09/30/12
Juliana Brixey, UTH	Jiajie Zhang, UTH	A Study of Interruption in an Emergency Department	03/01/02 - 02/28/05
Matthew Burstein, BCM	Ching C Lau, BCM/TCH; Rudy Guerra, RU	Molecular Classification of Ependymoma by Integrated Genomic Analysis	02/01/10 - 01/31/12
Craig Bush, UTMB (UT Medical Branch at Galveston)	Thompson, UTMB; Bruce Luxon, UTMB	Functional Annotation of Protein Structures	06/15/03 - 06/14/06
Lee Call, BCM	Douglas G. Burrin, BCM; Robert A. Britton, BCM	Multi-Omic Determinants of Necrotizing Enterocolitis	01/01/16 - 12/31/18
Varuna Chander, BCM	Richard Gibbs, BCM; Aleksandar Milosavljevic, BCM	Investigating Somatic Mosaicism In Blood For Cardiovascular Disease Risk	02/01/19 - 01/31/22
Nick Charron, RU	Cecilia Clementi, RU; Ankit Patel, RU and BCM	Screening of MHC-II Mutants Using Data-Driven Molecular Models	01/01/19 - 12/31/20
Jung-wei (Anna) Chen, UTH	Jiajie Zhang, UTH	A Process for Identifying and Reducing Functional Discrepancies - A Study Based on Electronic Dental Record Systems	06/15/06 - 06/14/08
Sharon Chiang, RU	Marina Vannucci, RU; Francesco Versace, MDA	A Hierarchical Bayesian Mixture Model to Identify Biomarkers Associated with Addiction	06/01/13 - 04/23/16
William Choi, BCM	Mirjana Maletic-Savatic, BCM; Zhandong Liu, BCM	Defining the Metabolome: An Integration of Biology and Bioinformatics	06/01/13 - 05/31/15
Ivan Coronado, UTH	Luca Giancardo, UTH; Sunil Sheth, UTH	Proxy Analysis of Neural Vascular System using Retina Imaging and Deep Neural Networks	01/01/21 - 12/31/23
Alexander Davis, MDA (UT MD Anderson Cancer Center)	Nicholas Navin, MDA; Luay Nakhleh, RU	Methods for Accurate Inference of Tumor History From Single-cell DNA Sequencing Data	01/01/17 - 12/31/18
Caleb Davis, BCM	Ching C Lau, BCM/TCH; Richard A Gibbs, BCM	Detection and Mapping of Balanced Translocations by Sequence Capture	04/01/08 - 03/31/11
Nasos Dousis, RU	Jianpeng Ma, BCM/RU	Multi-scale Protein Structure Prediction and Refinement	06/15/06 - 06/14/09

Eva Dyer, RU	Don Johnson, RU; Rich Baraniuk, RU	Structured Sparse Coding in the Striate Cortex (V1)	06/15/08 - 05/15/10
R. Leo Elworth, RU	Luay Nakhleh, RU; Michael Kohn, RU	Accurate Trait Loci Mapping Through Phylogenomics	01/01/16 - 12/31/16
Jonathan Flynn, UTH	Harel Shouval, UTH; Nitin Tandon, UTH	Neural Activity in Cortex during Interval Training	01/01/14 - 12/31/14
Evan Gates, MDA	David Fuentes, MDA; Dawid Schellingerhout, MDA	Imaging Based Predictions of Glioma Pathology and its Impact on Successful Surgery	01/01/19 - 12/31/20
Sarah Hall-Swan, RU	Lydia Kavrakli, RU; Greg Lizee, MDA	Computational Prediction of Cross-Reactivity with Applications to Personalized Immunotherapy	07/01/20 - 05/05/23
John Hays, UTMB	Stan Watowich, UTMB	The mechanism of activation of the TPR-MET oncoprotein	01/01/02 - 12/31/03
Emily Hendryx, RU	Craig Rusin, BCM; Beatrice Rivière, RU	Developing Predictive Mathematical Models from Patient Data	06/01/14 - 05/22/16; 08/16/16 - 08/15/17 (>Lister Hill supplement)
Stanley Hooker, BCM	Suzanne Leal, BCM; Marek Kimmel, RU	Rare Variants and Disease Susceptibility: Method Development and Application in Exome Sequence Data for Admixed Populations	06/30/11 - 06/29/13
Corey Hryc, BCM	Wah Chiu, BCM; Jim Briggs, UH (Univ. of Houston)	Pushing towards Drug Discovery and Clinical Applications through Validation of Near-atomic Resolution Macromolecular Complexes	06/01/13 - 05/31/16
Amy Hurwitz, BCM	Tim Palzkill, BCM; Olivier Lichtarge, BCM	Development of Novel Phage-Displayed Reagents for the Detection of Norovirus Gastroenteritis	06/01/13 - 05/31/16
Ramiz Iqbal, MDA	Ken Chen, MDA; Elmer Bernstam, UTH	Clinical Phenotyping with Semantic Knowledge Graphs	01/01/19 - 12/31/21
Elizabeth Jones, BCM	Michael Mancini, BCM; Marek Kimmel, RU	Development of Quantitative Single Cell Analysis of Cell Cycle Effects on Androgen Receptor Functions	06/15/07 - 06/14/10
Evan Jones, BCM	Rui Chen, BCM; Aleksandar Milosavljevic, BCM	Beyond the Exon: Understanding the Role of Non-coding and Regulatory Regions in Inherited Retinal Disease	03/01/16 - 11/12/17; 06/18/18 - 09/30/18
Venkata Jonnakuti, BCM	Zhandong Liu, BCM; Mirjana Maletic-Savatic, BCM	Inferring and Decoding Alternative Polyadenylation Signatures in Alzheimer's Disease	01/01/22 - 07/28/23
Brian Kirk, RU	Jianpeng Ma, BCM; Gabriel Lopez-Berestein, MDA	Molecular Theranostics: Integrated Computational and Experimental Study of Novel Anti-Cancer Inhibitors	06/15/07 - 06/14/10
Misha Koshelev, BCM	Scott Basinger, BCM; Marina Vannucci, RU	Computational Approaches to Behavioral Underpinnings of Social Exchange	10/01/09 - 06/30/11 ARRA
Pavan Kota, RU	Rich Baraniuk, RU; Rebekah Drezek, RU	Nonspecific DNA Sensors for Scalable Microbial Diagnostics	01/16/19 - 01/15/22
David Kristensen, BCM	Olivier Lichtarge, BCM; Ted Wensel, BCM	Computational and experimental characterization of the thermodynamic determinants governing the	07/01/01 - 06/30/04

		structure/function relationship of proteins	
Andrew Laitman, BCM	Zhandong Liu, BCM; Mirjana Maletic-Savatic, BCM	Integrating Multi-modal Neuroimaging and Genetics in Autism	01/01/15 - 12/31/17
Scott Larson, UTMB	Vince Hilser, UTMB	Computational & experimental modeling of the thermodynamic determinants governing structure function relationships of proteins	01/01/03 - 05/31/04
Christina Ledbetter, MDA	Wendt, MDA	Accelerated Brute Force Reconstruction of Magnetic Resonance Images	07/01/02 - 08/25/03
Scott Malec, UTH	Elmer Bernstam, UTH; Trevor Cohen, UTH	What Was Known and When? Using Time-indexed Knowledge Base to Evaluate Causal Discovery Methods Within Pharmacovigilance	07/01/17 - 06/30/18
Astrid Manuel, UTH	Zhongming Zhao, UTH; Assaf Gottlieb, UTH	Innovating Drug Repositioning Strategies for Drug Targets Linked Between Multiple Sclerosis and Cancers of the Blood	07/01/20 - 06/30/23
Rebecca Marsh, MDA	Hazle, MDA	Obtaining Quantitative Measurements of Water Diffusion in the Human Brain using High Resolution Diffusion MRI and a Multi-Compartmental Model	06/15/03 - 06/14/06
Sarah May, UTH	Assaf Gottlieb, UTH; Thomas P. Giordano, BCM	Developing Models to Predict Risk of HIV Infection Using Electronic Health Record Data	02/01/19 - 01/31/22
Mary McGuire, UTH	Jack Smith, UTH; Devika Subramanian, RU	Comparative Analysis of Biological Pathways - An Algebraic Approach	01/01/08 - 12/31/10
Kit Menlove, BCM	Jianpeng Ma, BCM/RU; Tim Palzkill, BCM	Identification of Polycomb Response Elements in Mammalian Embryonic Stem Cells and Cancer Cells	10/01/09 - 09/30/11 ARRA
Justin Mower, BCM	Trevor Cohen, UTH; Devika Subramanian, RU	Machine Learning Approaches on PSI Represented Biomedical Text	06/30/15 - 06/29/18
Christopher Myers, BCM	B. Montgomery Pettitt, UH; Wah Chiu, BCM	Calculation of DNA Packaging Forces in Viral Capsids – Theoretical Approach Based on Non-linear Behavior of DNA	01/01/10 - 12/31/11
Risa Myers, RU	Chris Jermaine, RU; John Frenzel, MDA	Probabilistic Model of Patient Vital Signs to Classify Anesthetic Volatility using Bayesian Machine Learning Techniques	05/16/13 - 05/15/16
Edward Nguyen, RU	Cesar Uribe, RU; Sebastián Acosta, BCM	An Intelligent Monitoring System for Intensive Care Units	01/16/22 - 01/15/23
Danny Ochoa, UH (Univ. of Houston)	George Fox, UH; Yuriy Fofanov, UH	Bacillus Pumilius Supragenome and the Basis of Extreme Resistance of Spores to UV Radiation	12/01/09 - 11/30/11 ARRA
Christine Peterson, RU	Marina Vannucci, RU; Mirjana Maletic-Savatic, BCM	A Bayesian Graphical Model Approach to Inference on Metabolic Pathways for Huntington's Disease	05/01/11 - 04/30/14

Charles Puelz, RU	Beatrice Rivière, RU; Craig Rusin, BCM	Data Driven PDE Model of Hypoplastic Left Heart Syndrome	06/01/14 - 05/12/17
Catherine Putonti, UH	Yuriy Fofanov, UH; Fox, UH	Genome Space Fingerprinting	06/15/03 - 06/14/06
Deepa Ramachandran, RU	John Clark, RU; Tony Ma, BCM	Using a Human Cardiovascular-Respiratory Model to Study Mechanical Ventricular and Septal Dyssynchrony	01/01/08 - 12/31/10
Ian Rees, BCM	Steve Ludtke, BCM; Irina Serysheva, UTH	EMEN2: A Data-mining Approach to Improving Cryo-EM Resolution	05/01/10 - 04/30/12
Ryan Rochat, BCM	Wah Chiu, BCM; Lennart Johnsson, UH	Reconstructing the Portal Complex in the herpes Capsid without Imposed Symmetry: Pushing the Limits of Computational Resources for Structure Determination of one of the Largest Human Viruses	10/01/09 - 09/30/12
Mark Rojas, UH	Yuriy Fofanov, UH; William Widger, UH	Heart Failure and Mitochondria	04/01/10 - 03/31/12
Elin Shaddox, RU	Marina Vannucci, RU; Nick Hanania, BCM	Integrated Inference of COPD Gene and Metabolite Pathways in COPD using Hierarchical Bayesian Graphical Models	04/01/17 - 03/31/19
Jiayi Monika Sun, BCM	Ching C Lau, BCM/TCH; Rudy Guerra, RU	Characterization of the Osteosarcoma Genome	06/30/11- 06/29/14
Lillian Thistlethwaite (née Ashmore), BCM	Aleksander Milosavljevic, BCM; Sarah Elsea, BCM	Integrating Metabolomic and Whole Exome Sequencing Data Using a Probability Diffusion Method	01/01/17 - 12/31/19
Suzanne Tomlinson, UTMB	Stan Watowich, UTMB; David Gorenstein, UTH	Identification of Dengue Virus Protease Inhibitors And Antiviral Optimization Utilizing QSAR	10/01/09 - 09/30/10 ARRA
Jesse Turner, RU	Steve Cox, RU	Modeling the Time Dependent Behavior of a Biochemical System with Applications to the lac Operon	01/01/05 - 12/31/07
Carlos Vera Recio, MDA	Wenyi Wang, MDA; Guillermina (Gigi) Lozano, MDA	Decomposition of Transcriptomic Data from in vivo Tumor Samples into Tumor, Stroma and Immune Subtypes	01/01/19 - 12/31/20
Ting Emily Wang, RU	Marina Vannucci, RU; Zulfi Haneef, BCM	A Bayesian Hidden Markov Model for Assessing Seizure Risk	01/01/20 - 12/31/21
Tiffany Warth, BCM	B. Montgomery Pettitt, UH; Wah Chiu, BCM	Molecular Dynamics Simulations of Trichomonas vaginalis Ferredoxin	06/01/02 - 05/31/05
Jillian Webb, UTH	Jiajie Zhang, UTH; Jack Smith, UTH	Using Domain Ontological Modeling to Evaluate and Design Information Systems in Critical Care Settings: A Socio-Technical Approach	06/15/07 - 06/14/08
Meagan Whaley, RU	Steve Cox, RU; Nitin Tandon, UTH	Functional Human Language Pathways	06/01/13 - 05/31/15
Stephen Wilson, BCM	Olivier Lichtarge, BCM; Tim Palzkill, BCM	Creating a Personalized Multi-factor Network to Determine Translational Outcomes and Treatments in Cancer	01/01/15 - 12/31/18

Jacques Eric Zaneveld, BCM	Rui Chen, BCM; Olivier Lichtarge, BCM	Molecular Diagnosis of Stargardts Disease	06/01/13 – 05/31/14
Yongyi Zhao, RU	Ashok Veeraraghavan, RU; Ashutosh Sabharwal, RU	Machine Learning Approach to Real-time Diffuse Optical Imaging	01/01/21 - 12/31/22

Past Postdoctoral Trainees

Trainee	Mentors	Project Title	Training Periods
Macarena Aloj, BCM (Baylor College of Medicine)	Ramiro Salas, BCM Akane Sano, RU (Rice University)	Circadian Rhythms and OUD: Using Brain Imaging and Machine Learning to Predict Outcomes in Opioid Use Disorder Patients	06/01/22 - 01/13/23
Jennifer Asmussen, BCM	Olivier Lichtarge, BCM; Devika Subramanian, RU	Matrix Decomposition of Omics Data and Pathway Correlations	06/17/19 - 06/16/21
Mariah R. Baker, BCM	Wah Chiu, BCM; Irina Serysheva, UTH	Genome-scale analysis of cellular resolution gene expression patterns	10/01/09 - 09/30/11 ARRA
Matthew L. Baker, BCM	Wah Chiu, BCM; Ioannis Kakadiaris, UH	Integrated Modeling of a Skeletal Muscle Ca ²⁺ Channel, RyR1	03/01/02 - 02/28/05
Sebastian Berisha, UH (University of Houston)	David Mayerich, UH: Anil Sood, MDA	Using FTIR Spectroscopic Imaging to Identify Predictive Molecular Markers in Ovarian Tumor Biopsies	06/29/18 - 04/30/19; 08/03/19 - 08/23/19
Melia Bonomo, RU (Rice University)	Rob Raphael, RU; Santiago Segarro, RU	Using Informatics and Deep Learning to Optimize Cochlear Implant Signal Processing of Music	05/01/21 - 04/30/23
Ahmad Borzou, UTMB (UT Medical Branch at Galveston)	Rovshan Sadygov, UTMB; Jonathan Hommel, UTMB	Matrix Decomposition of Omics Data and Pathway Correlations	01/01/19 - 08/31/20
Christie Buchovecky, BCM	Olivier Lichtarge, BCM; Curtis Pickering, MDA	Reasoning over Biological Networks to Make Personalized Drug Predictions in Cancer	06/30/15 - 06/22/16
James P. Carson, BCM	Wah Chiu, BCM; Joe Warren, RU	Computational Identification of microRNAs and Their Targets	02/01/04 - 01/31/06
Han Chen, MDA (UT MD Anderson Cancer Center)	Han Liang, MDA; Gordon Mills, MDA	Overcoming Drug Resistance by Trapping Cancer Cells with Rationally Designed Drug Combinations	03/15/16 - 03/14/18

Wei Dai, BCM	Wah Chiu, BCM; Ioannis Kakadiaris, UH	A Structural Informatics Approach to Study Cynobacteria Carboxysome and Cyanophage Infection by Model-based Electron Tomography	05/01/10 - 04/30/12
Caleb Davis, BCM	Richard A Gibbs, BCM; David Wheeler, BCM	Fast and Accurate Detection of Actionable Structural Variation	06/01/13 - 05/31/15
Ninad Dewal, BCM	David Wheeler, BCM; Richard A Gibbs, BCM	Detecting Selection for Amplified Alleles in Tumor Exomes	01/01/12 - 12/31/12
Sara Di Rienzi, BCM	Robert A. Britton, BCM; Oleg Igoshin, RU	Diet-induced Evolution of the Human Microbiome: The Impact of Dietary Sugars on Gut Health	06/26/17 - 06/25/19
Ryan Leo Elworth, RU	Lauren Stadler, RU; Todd Treangen, RU	Comprehensive Community Monitoring of Infectious Diseases with Wastewater	06/07/21 - 04/08/22
Serkin Erdin, BCM	Olivier Lichtarge, BCM; Ted Wensel, BCM	Marrying Evolution and Energetics Towards the Rational Identification of Therapeutic Targets and Drug Design	06/15/08 - 06/14/10
J. Mark Ettinger, UTH (UT Health Science Center at Houston)	Mohammad Rahbar, UTH; Moshe Vardi, RU	Rigorous Privacy for Biomedical Databases	10/01/09 - 09/30/10 ARRA
Salma Ferdous, BCM	Rui Chen, BCM; Ken Chen, MDA	Single Cell Spatial Atlas of the Human Retina Transcriptome	01/01/21 - 12/31/22
Ana Ferreira de Mesquita, BCM	Gad Schaulsky, BCM; Rui Chen, BCM	Transcriptional Patterns of Allorecognition Mediated by rasD	06/01/22 - 07/04/23
Ernesto Fontenla, BCM	Wah Chiu, BCM; Richard Baraniuk, RU	Accurate Reconstruction of Cryo-Electron Tomography of Cells for Diagnostics of Platelet Pathology	06/01/15 - 05/31/16
Bryant Gipson, RU (Rice University)	Lydia Kavradi, RU; Steve Ludtke, BCM	Constrained Conformational Analysis: Protein Motion Planning With Cryo-Electron Microscopy	10/01/10 - 09/30/12
Pavel Govyadinov, UH	David Mayerich, UH; Jordan Miller, RU; Guoning Chen, UH	Segmentation, Classification, and Visualization of Large Microvascular Networks in the Rodent Brain	01/01/20 - 12/31/21
Randall Hayes, UTH	John Byrne, UTH; Cox, RU	Computational models of an adaptive neural circuit	08/01/03 - 02/15/04
Jochen J. Heyd, BCM	Stefan Birmanns, BCM; Michael Schmid, BCM	RuBisCO, Carboxysomes, and Carbon Dioxide: Towards a Better Understanding of Carbon Fixation	06/15/07 - 05/08/09

Parisa Imanirad, MDA	Gordon Mills, MDA; Han Liang, MDA; Prahlad Ram, MDA	Genome, Transcriptome, and Proteome Alterations Regulating Delayed Recurrence of ER+ Breast Cancer: A Critical Step in Development of Effective Biomarkers and Therapies	04/01/17 - 03/31/19
Ben G. Janesko, RU	Gustavo Scuseria, RU; John Weinstock, BCM ; Jianpeng Ma, BCM	Simulating Nanostructured Substrates for Surface Enhanced Spectroscopy of Biomolecules	06/15/06 - 06/14/08
Yifeng Jiang, UH	Ioannis Kakadiaris, UH; Ananth Annapragada, BCM/TCH	The Development of Image-based Signatures for Early Stage Alzheimer's Disease Using Novel Nanoparticle Contrast Agents	01/01/12 - 12/31/12
Stephen L. Jones, UTH	Todd Johnson, UTH; Jiajie Zhang, UTH	Development of Quantitative Single Cell Analysis of Cell Cycle Effects on Androgen Receptor Functions	06/15/08 - 06/14/10
Ken J. Kalafus, BCM	Aleksander Milosavljevic, BCM; John Weinstock, BCM	Improving Pash: Better Sequence Comparison through Positional Hashing	06/01/05 - 05/31/06
Peter V. Killoran, UTH	Jiajie Zhang, UTH; Sriram Iyengar, UTH	Designing a Human-Centered Visualization Platform for Anesthesia Preoperative Assessment	03/01/11 - 02/28/13
Sangbae Kim, BCM	Rui Chen, BCM; Yongtao Guan, BCM	Identifying Novel Genetic Variants Associated With Glaucoma	01/01/16 - 12/31/16; 04/01/17 - 03/31/18
Alexander Kunin, BCM	Xaq Pitkow, BCM; Krešo Josic, UH	Discovering Structure-Function Relationships in Cortex Using Novel Network Analyses	01/01/20 - 12/31/22
Courtney Lane, RU	Don Johnson, RU; Rob Raphael, RU; Steve Cox, RU	Optimal hearing aid design using computational neuronal models	06/15/05 - 06/14/06
Maia Larios-Sanz, RU	Janet L Siefert, RU; Dan Graur, UH	Experimental Determination of the Impact of Horizontal Gene Transfer on Gene Expression and Proteome Function	2005 - 2006
Kevin Liu, RU	Luay Nakhleh, RU; Michael Hans Kohn, RU	Linking Adaptive Hybridization to Phenotype and Function in the Mouse Genome	01/01/12 -12/31/12; 05/01/13 - 04/30/14
Yasmin Lyons, MDA	Anil Sood, MDA; Prahlad Ram, MDA	Targeting Adaptive Changes in the Tumor Microenvironment	06/30/15 - 06/29/17
John Magnotti, BCM	Michael Beauchamp, BCM; Genevera Allen, RU	Discovering the Multisensory Feature Space of Human Speech Recognition	06/01/15 - 05/31/17
Rupali Mankar, UH	Rohith Reddy, UH; Carlos Bueso-Ramos, MDA; Cheng Cameron Yin, MDA	Comprehensive Evaluation of Myelofibrosis in Bone Marrow Using Infrared Imaging and Deep Learning	06/01/19 - 05/31/21
David Marciano, BCM	Olivier Lichtarge, BCM; Tim Palzkill, BCM	Using Sequence Information to Predict and Control Structure-function Relationships in the LexA Repressor of the Bacterial SOS Response to DNA Damage	10/01/10 - 09/30/12

Kirt Martin, BCM	John Weinstock, BCM; Kim Worley, BCM	Prokaryotic Genome Organization	01/01/03 - 12/31/03
Susan McGovern, BCM	Wah Chiu, BCM; John Weinstein, MDA	Developing a web-based algorithm for protein structure mapping of nsSNP data from The Cancer Genome Atlas	10/01/10 - 09/30/11 ARRA
Angela Medvedeva, UTH	Nitin Tandon, UTH; Xaq Pitkow, BCM	Decoding Speech From Neural Activity By Developing A Novel Neural Network Approach	06/01/20 - 10/31/21
Natasha Mehdiabadi, RU	Joan Strassmann, RU; David Queller, RU; Shaw, BCM	The evolution of cooperation and conflict in the social amoeba, Dictyostelium discoideum	01/01/03 - 12/31/03
Rose Mikulski, BCM	Timothy Palzkill, BCM; Rudy Guerra, RU	Analysis of Metallo-Beta-Lactamase Sequence Constraints at High Resolution	06/01/13 - 05/31/15
Bartlett D. Moore IV, UTH	Nitin Tandon, UTH; Xaq Pitkow, BCM	Spectro-spatial Topography of Human Cerebral Cortex	06/01/14 - 05/31/16
Dan Morgan, BCM	Olivier Lichtarge, BCM; Timothy Palzkill, BCM	Focused Optimization of Peptide Inhibitors of Protein-Protein Interactions	10/01/09 - 12/16/10
Tyler Moss, MDA	Prahlad Ram, MDA; Deepak Nagrath, RU	Modeling Metabolic Activity of Tumors	05/01/14 - 04/30/15
David Noren, RU	Amina Qutub, RU; Steven Kornblau, MDA	The Proteomics of Acute Myeloid Leukemia: Linking Protein Signatures to Patient Prognosis	01/01/14 - 12/31/16
Michael Nute, RU	Todd Treangen, RU; Tor Savidge, BCM	Understanding Susceptibility to Intestinal Infection in High-Risk Patients Using Annotation-Agnostic Structural Features of the Gut Microbiome	12/01/20 - 11/30/21
Elizabeth Ostrowski, RU	Joan Strassman, RU; David Queller, RU	Uncovering Patterns of Selection on Social Genes in Dictyostelium Discoideum	01/01/07 - 12/31/08
Matthew I. Peña, RU	George Bennett, RU; Lydia Kavraki, RU	Pathfinding and Evaluating Novel Biosynthetic Routes to Pharmaceuticals	01/01/16 - 12/31/16
David Power, UTMB (UT Medical Branch at Galveston)	David Gorenstein, UTMB; Bruce Luxon, UTMB	Analysis of the catalytic mechanism of human APE1 by ONIOM calculations and site-directed mutagenesis	06/01/02 - 08/31/03
Zhihua Qi, BCM	Yongtao Guan, BCM; Rui Chen, BCM	Predicting Tissue-specific Gene Expression and Gene-level Association	04/01/17 - 03/31/18
Christian JJ Ray, RU	Oleg Igoshin, RU; Robert Azevedo, UH	Evolutionary Selection on the Biophysics of Molecular Networks and Gene Expression	06/15/08 - 06/14/10
Jeffrey Gordon Reid, UH	B. Montgomery Pettitt, UH; George Fox, UH; John Miller, BCM	Computational Identification of microRNAs and Their Targets	01/01/04 – 06/30/06

Gustavo Rodriguez, BCM	Ted Wensel, BCM; Olivier Lichtarge, BCM	Evolution-Guided Receptor Engineering	06/15/04 - 06/14/06
Rafael Rosengarten, BCM	Gad Shaulsky, BCM; Rui Chen, BCM	Transcription Network Analysis in Dictyostelium discoideum	06/01/13 - 05/31/15
Leila Saadatifard, UH	Badri Roysam, UH; Pramod Dash, UTH	Comprehensive Analysis of Cellular Alterations in the Alzheimer's Disease Brain	06/17/19 - 06/16/21
Gerda Saxer Quance, RU	Joan Strassmann, RU; Yuriy Fofanov, UH	Assessing Genetic Variation in Dictyostelium discoideum at the Genome and the Gene Level Using New Sequencing Technology	06/15/08 - 06/14/10
Manmohan Singh, UH	Kirill V. Larin, UH; Manoop Bhutani, MDA; David Mayerich, UH	High-Throughput Optical Coherence Elastography for Colorectal Cancer Detection	06/30/18 - 06/29/20
Jonathan Starkey, UTMB	Bruce Luxon, UTMB; Ronald G Tilton, UTMB	Metabonomics of Diabetic Nephropathy	01/21/09 - 01/20/11
Franklin P. Tamborello, UTH	Hongbin Wang, UTH; Jiajie Zhang, UTH	Modeling Spatial Cognition in Complex Environments	10/01/09 - 06/24/11
Len Y. Tanaka, UTH	Elmer Bernstam, UTH; Noriaki Aoki, UTH (deceased 01/05/14)	Qubec: A Research Platform for Optimizing Searching the Biomedical Literature	06/15/06 - 06/14/07
Morgan Taylor, MDA	Anil Sood, MDA; Wah Chiu, BCM	Platelet Forms and their Chemoevasive Functions	05/01/13 - 04/30/14
Christian Seishin Uehara, UH	Ioannis Kakadiaris, UH; Peter Saggau, BCM	A Mathematical Model of the Control of Ventilation	06/26/02 - 06/25/04
Gary V. Walker, MDA	Dean Sittig, UTH; Thomas Buchholz, MDA	Improving Adherence to Oncology Quality Guidelines using Integrated Clinical Decision Support in an Electronic Health Record	06/30/13 - 06/29/14
Yong (Tony) Wang, MDA	Nicholas Navin, MDA; Gordon Mills, MDA; Wenyi Wang, MDA	Investigating Normal Breast Tissue Mosaicism and Tumor Initiation in TNBC Patients	06/15/16 - 02/16/17
Angela Wilkins, BCM	Olivier Lichtarge, BCM; Tim Palzkill, BCM	Sequence and Structure Continuity of Evolutionary Importance Improves Protein Functional Site Discovery and Annotation	06/20/09 - 06/21/11
Jingping Xu, UTH	Hongbin Wang, UTH; Todd R Johnson, UTH	Influences of Positive Affect on Decision Making: A Neurocomputational Positive Psychology Approach	10/01/09 - 09/30/10 ARRA
Di Zhang, BCM	Suzanne Leal, BCM; Marek Kimmel, RU	SEQSpark: A Complete Analysis Tool For Large-scale Rare Variant Association Studies Using Whole Genome and Exome Sequence Data	04/01/17 - 03/31/18

Yili Zhang, UTH	John Byrne, UTH; Steve Cox, RU	Computational Modeling of the Molecular Mechanisms Contributing to Long-Term Memory	10/01/09 - 09/30/11
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Short Term Trainees

Trainee	Mentors	Project Title	Training Periods
Drew Bryant, RU (Rice University)	Lydia Kavradi, RU		06/05/05 - 08/12/05
Michael Cannon, Texas Southern U	Ananth Annapragada, UTH (UT Health Science Center at Houston)		06/05/05 - 08/12/05
Linda Geng, RU	Yousif Shamoo, RU		06/05/05 - 08/12/05
Robert Ortman, RU	Clark, RU		06/05/05 - 08/12/05
Matthew Peña, UT Austin	Beckingham, RU; Kevin MacKenzie, RU		06/05/05 - 08/12/05

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