

NLM Former Trainees

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

Former Predoctoral Trainees

| Trainee | Mentors | Project Title | Training Periods |
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| Behrang Amini, UTH (UTHSC-H) | John Byrne, UTH; John Clark, RU | <i>A Neuronal Model of the Rat Respiratory System</i> | 01/01/02 - 06/30/04 |
| Ben Bachman, BCM | Olivier Lichtarge, BCM; Ted Wensel, BCM | <i>Finding Drug Targets by Evolutionary Trace Analysis of Protein Pathways</i> | 10/01/09 - 09/30/11 ARRA |
| Ben Bammes, BCM | Wah Chiu, BCM; David Tweardy, BCM | <i>Modulating the Interaction between the TRIC and STAT3</i> | 06/30/10 - 06/29/11 |
| Rosa Banuelos, RU (Rice University) | Suzanne Leal, BCM; Marek Kimmel, RU | <i>Methods for Detecting Complex Trait-Rare Variant Associations: Application to Next Generation Sequence Data</i> | 05/16/11 - 05/11/13 |
| Michael Bolt, BCM | Mike Mancini, BCM; Marek Kimmel, RU | <i>A Systems Biology Level Analysis of Estrogen Receptor-α Transcription at the Single Cell Level</i> | 10/01/09 - 09/30/12 |
| Juliana Brixey, UTH | Jiajie Zhang, UTH | <i>A Study of Interruption in an Emergency Department</i> | 03/01/02 - 02/28/05 |
| Matthew Burstein, BCM | Ching C Lau, BCM/TCH; Rudy Guerra, RU | <i>Molecular Classification of Ependymoma by Integrated Genomic Analysis</i> | 02/01/10 - 01/31/12 |
| Craig Bush, UTMB | Thompson, UTMB; Bruce Luxon, UTMB | <i>Functional Annotation of Protein Structures</i> | 06/15/03 - 06/14/06 |
| Jung-wei (Anna) Chen, UTH | Jiajie Zhang, UTH | <i>A Process for Identifying and Reducing Functional Discrepancies - A Study Based on Electronic Dental Record Systems</i> | 06/15/06 - 06/14/08 |
| Sharon Chiang, RU | Marina Vannucci, RU; Francesco Versace, MDACC | <i>A Hierarchical Bayesian Mixture Model to Identify Biomarkers Associated with Addiction</i> | 06/01/13 - 04/23/16 |
| William Choi, BCM | Mirjana Maletic-Savatic, BCM; Zhandong Liu, BCM | <i>Defining the Metabolome: An Integration of Biology and Bioinformatics</i> | 06/01/13 - 05/31/15 |
| Caleb Davis, BCM | Ching C Lau, BCM/TCH; Richard A Gibbs, BCM | <i>Detection and Mapping of Balanced Translocations by Sequence Capture</i> | 04/01/08 - 03/31/11 |
| Nasos Dousis, RU | Jianpeng Ma, BCM/RU | <i>Multi-scale Protein Structure Prediction and Refinement</i> | 06/15/06 - 06/14/09 |
| Eva Dyer, RU | Don Johnson, RU; Rich Baraniuk, RU | <i>Structured Sparse Coding in the Striate Cortex (V1)</i> | 06/15/08 - 05/15/10 |
| R. Leo Elworth, RU | Luay Nakhleh, RU; Michael Kohn, RU | <i>Accurate Trait Loci Mapping Through Phylogenomics</i> | 01/01/16 - 12/31/16 |
| Jonathan Flynn, UTH | Harel Shouval, UTH; Nitin Tandon, UTH | <i>Neural Activity in Cortex during Interval Training</i> | 01/01/14 - 12/31/14 |
| John Hays, | Stan Watowich, UTMB | <i>The mechanism of activation of the</i> | 01/01/02 - 12/31/03 |

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| UTMB | | <i>TPR-MET oncoprotein</i> | |
| Stanley Hooker, BCM | Suzanne Leal, BCM; Marek Kimmel, RU | <i>Rare Variants and Disease Susceptibility: Method Development and Application in Exome Sequence Data for Admixed Populations</i> | 06/30/11 - 06/29/13 |
| Corey Hryc, BCM | Wah Chiu, BCM; Jim Briggs, UH | <i>Pushing towards Drug Discovery and Clinical Applications through Validation of Near-atomic Resolution Macromolecular Complexes</i> | 06/01/13 - 05/31/16 |
| Amy Hurwitz, BCM | Tim Palzkill, BCM; Olivier Lichtarge, BCM | <i>Development of Novel Phage-Displayed Reagents for the Detection of Norovirus Gastroenteritis</i> | 06/01/13 - 05/31/16 |
| Elizabeth Jones, BCM | Michael Mancini, BCM; Marek Kimmel, RU | <i>Development of Quantitative Single Cell Analysis of Cell Cycle Effects on Androgen Receptor Functions</i> | 06/15/07 - 06/14/10 |
| Brian Kirk, RU | Jianpeng Ma, BCM; Gabriel Lopez-Berestein, MDACC | <i>Molecular Theranostics: Integrated Computational and Experimental Study of Novel Anti-Cancer Inhibitors</i> | 06/15/07 - 06/14/10 |
| Misha Koshelev, BCM | Scott Basinger, BCM; Marina Vannucci, RU | <i>Computational Approaches to Behavioral Underpinnings of Social Exchange</i> | 10/01/09 - 06/30/11 ARRA |
| David Kristensen, BCM | Olivier Lichtarge, BCM; Ted Wensel, BCM | <i>Computational and experimental characterization of the thermodynamic determinants governing the structure/function relationship of proteins</i> | 07/01/01 - 06/30/04 |
| Scott Larson, UTMB | Vince Hilser, UTMB | <i>Computational & experimental modeling of the thermodynamic determinants governing structure function relationships of proteins</i> | 01/01/03 - 05/31/04 |
| Christina Ledbetter, MDACC | Wendt, MDACC | <i>Accelerated Brute Force Reconstruction of Magnetic Resonance Images</i> | 07/01/02- 08/25/03 |
| Rebecca Marsh, MDACC | Hazle, MDACC | <i>Obtaining Quantitative Measurements of Water Diffusion in the Human Brain using High Resolution Diffusion MRI and a Multi-Compartmental Model</i> | 06/15/03 - 06/14/06 |
| Mary McGuire, UTH | Jack Smith, UTH; Devika Subramanian, RU | <i>Comparative Analysis of Biological Pathways - An Algebraic Approach</i> | 01/01/08 - 12/31/10 |
| Kit Menlove, BCM | Jianpeng Ma, BCM/RU; Tim Palzkill, BCM | <i>Identification of Polycomb Response Elements in Mammalian Embryonic Stem Cells and Cancer Cells</i> | 10/01/09 - 09/30/11 ARRA |
| Christopher Myers, BCM | B. Monte Pettitt, UH; Wah Chiu, BCM | <i>Calculation of DNA Packaging Forces in Viral Capsids – Theoretical Approach Based on Non-linear Behavior of DNA</i> | 01/01/10 - 12/31/11 |
| Risa Myers, RU | Chris Jermaine, RU; John Frenzel, MDA | <i>Probabilistic Model of Patient Vital Signs to Classify Anesthetic Volatility using Bayesian Machine Learning Techniques</i> | 05/16/13 - 05/15/16 |
| Danny Ochoa, UH | George Fox, UH; Yuriy Fofanov, UH | <i>Bacillus Pumilius Supragenome and the Basis of Extreme Resistance of</i> | 12/01/09 - 11/30/11 ARRA |

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| | | <i>Spores to UV Radiation</i> | |
| Christine Peterson, RU | Marina Vannucci, RU; Mirjana Maletic-Savatic, BCM | <i>A Bayesian Graphical Model Approach to Inference on Metabolic Pathways for Huntington's Disease</i> | 05/01/11 - 04/30/14 |
| Charles Puelz, RU | Beatrice Rivière, RU; Craig Rusin, BCM | <i>Data Driven PDE Model of Hypoplastic Left Heart Syndrome</i> | 06/01/14 - 05/12/17 |
| Catherine Putonti, UH | Yuriy Fofanov, UH; Fox, UH | <i>Genome Space Fingerprinting</i> | 06/15/03 - 06/14/06 |
| Deepa Ramachandran, RU | John Clark, RU; Tony Ma, BCM | <i>Using a Human Cardiovascular-Respiratory Model to Study Mechanical Ventricular and Septal Dyssynchrony</i> | 01/01/08 - 12/31/10 |
| Ian Rees, BCM | Steve Ludtke, BCM; Irina Serysheva, UTH | <i>EMEN2: A Data-mining Approach to Improving Cryo-EM Resolution</i> | 05/01/10 - 04/30/12 |
| Ryan Rochat, BCM | Wah Chiu, BCM; Lennart Johnsson, UH | <i>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</i> | 10/01/09 - 09/30/12 |
| Mark Rojas, UH | Yuriy Fofanov, UH; William Widger, UH | <i>Heart Failure and Mitochondria</i> | 04/01/10 - 03/31/12 |
| Jiayi Monika Sun, BCM | Ching C Lau, BCM/TCH; Rudy Guerra, RU | <i>Characterization of the Osteosarcoma Genome</i> | 06/30/11- 06/29/14 |
| Suzanne Tomlinson, UTMB | Stan Watowich, UTMB; David Gorenstein, UTH | <i>Identification of Dengue Virus Protease Inhibitors And Antiviral Optimization Utilizing QSAR</i> | 10/01/09 - 09/30/10 ARRA |
| Jesse Turner, RU | Steve Cox, RU | <i>Modeling the Time Dependent Behavior of a Biochemical System with Applications to the lac Operon</i> | 01/01/05 - 12/31/07 |
| Tiffany Warth, BCM | B. Monte Pettitt, UH; Wah Chiu, BCM | <i>Molecular Dynamics Simulations of Trichomonas vaginalis Ferredoxin</i> | 06/01/02 - 05/31/05 |
| Jillian Webb, UTH | Jiajie Zhang, UTH; Jack Smith, UTH | <i>Using Domain Ontological Modeling to Evaluate and Design Information Systems in Critical Care Settings: A Socio-Technical Approach</i> | 06/15/07 - 06/14/08 |
| Meagan Whaley, RU | Steve Cox, RU; Nitin Tandon, UTH | <i>Functional Human Language Pathways</i> | 06/01/13 - 05/31/15 |
| Jacques Eric Zaneveld, BCM | Rui Chen, BCM; Olivier Lichtarge, BCM | <i>Molecular Diagnosis of Stargardts Disease</i> | 06/01/13 - 05/31/14 |

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Former Postdoctoral Trainees

| Trainee | Mentors | Project Title | Training Periods |
|--------------------------|--|--|-----------------------------|
| Mariah R. Baker, BCM | Wah Chiu, BCM; Irina Serysheva, UTH | <i>Genome-scale analysis of cellular resolution gene expression patterns</i> | 10/01/09 - 09/30/11 ARRA |
| Matthew L. Baker, BCM | Wah Chiu, BCM; Ioannis Kakadiaris, UH | <i>Integrated Modeling of a Skeletal Muscle Ca²⁺ Channel, RyR1</i> | 03/01/02 - 02/28/05 |
| Christie Buchovecky, BCM | Olivier Lichtarge, BCM; Curtis Pickering, MDACC | <i>Reasoning over Biological Networks to Make Personalized Drug Predictions in Cancer</i> | 06/30/15 - 06/22/16 |
| James P. Carson, BCM | Wah Chiu, BCM; Joe Warren, RU | <i>Computational Identification of microRNAs and Their Targets</i> | 02/01/04 - 01/31/06 |
| Wei Dai, BCM | Wah Chiu, BCM; Ioannis Kakadiaris, UH | <i>A Structural Informatics Approach to Study Cynobacteria Carboxysome and Cyanophage Infection by Model-based Electron Tomography</i> | 05/01/10 - 04/30/12 |
| Caleb Davis, BCM | Richard A Gibbs, BCM; David Wheeler, BCM | <i>Fast and Accurate Detection of Actionable Structural Variation</i> | 06/01/13 - 05/31/15 |
| Ninad Dewal, BCM | David Wheeler, BCM; Richard A Gibbs, BCM | <i>Detecting Selection for Amplified Alleles in Tumor Exomes</i> | 01/01/12 - 12/31/12 |
| Serkin Erdin, BCM | Olivier Lichtarge, BCM; Ted Wensel, BCM | <i>Marrying Evolution and Energetics Towards the Rational Identification of Therapeutic Targets and Drug Design</i> | 06/15/08 - 06/14/10 |
| J. Mark Ettinger, UTH | Mohammad Rahbar, UTH; Moshe Vardi, RU | <i>Rigorous Privacy for Biomedical Databases</i> | 10/01/09 - 09/30/10 ARRA |
| Ernesto Fontenla, BCM | Wah Chiu, BCM; Richard Baraniuk, RU | <i>Accurate Reconstruction of Cryo-Electron Tomography of Cells for Diagnostics of Platelet Pathology</i> | 06/01/15 - 05/31/16 |
| Bryant Gipson, RU | Lydia Kavraki, RU; Steve Ludtke, BCM | <i>Constrained Conformational Analysis: Protein Motion Planning With Cryo-Electron Microscopy</i> | 10/01/10 - 09/30/12 |
| Randall Hayes, UTH | John Byrne, UTH; Cox, RU | <i>Computational models of an adaptive neural circuit</i> | 08/01/03 - 02/15/04 |
| Jochen J. Heyd, BCM | Stefan Birmanns, BCM; Michael Schmid, BCM | <i>RuBisCO, Carboxysomes, and Carbon Dioxide: Towards a Better Understanding of Carbon Fixation</i> | 06/15/07 - 05/08/09 |
| Ben G. Janesko, RU | Gustavo Scuseria, RU; John Weinstock, BCM ; Jianpeng Ma, BCM | <i>Simulating Nanostructured Substrates for Surface Enhanced Spectroscopy of Biomolecules</i> | 06/15/06 - 06/14/08 |
| Yifeng Jiang, UH | Ioannis Kakadiaris, UH; Ananth Annapragada, BCM/TCH | <i>The Development of Image-based Signatures for Early Stage Alzheimer's Disease Using Novel Nanoparticle Contrast Agents</i> | 01/01/12 - 12/31/12 |
| Stephen L. Jones, UTH | Todd Johnson, UTH; Jiajie Zhang, UTH | <i>Development of Quantitative Single Cell Analysis of Cell Cycle Effects on Androgen Receptor Functions</i> | 06/15/08 - 06/14/10 |

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| Ken J. Kalafus, BCM | Aleksander Milosavljevic, BCM; John Weinstock, BCM | <i>Improving Pash: Better Sequence Comparison through Positional Hashing</i> | 06/01/05 - 05/31/06 |
| Peter V. Killoran, UTH | Jiajie Zhang, UTH; Sriram Iyengar, UTH | <i>Designing a Human-Centered Visualization Platform for Anesthesia Preoperative Assessment</i> | 03/01/11 - 02/28/13 |
| Courtney Lane, RU | Don Johnson, RU; Rob Raphael, RU; Steve Cox, RU | <i>Optimal hearing aid design using computational neuronal models</i> | 06/15/05 - 06/14/06 |
| Yasmin Lyons, MDACC | Anil Sood, MDACC; Prahlad Ram, MDACC | <i>Targeting Adaptive Changes in the Tumor Microenvironment</i> | 06/30/15 - 06/29/17 |
| Maia Larios-Sanz, RU | Janet L Siefert, RU; Dan Graur, UH | <i>Experimental Determination of the Impact of Horizontal Gene Transfer on Gene Expression and Proteome Function</i> | 2005 - 2006 |
| Kevin Liu, RU | Luay Nakhleh, RU; Michael Hans Kohn, RU | <i>Linking Adaptive Hybridization to Phenotype and Function in the Mouse Genome</i> | 01/01/12 -12/31/12; 05/01/13 -04/30/14 |
| John Magnotti, BCM | Michael Beauchamp, BCM; Genevera Allen, RU | <i>Discovering the Multisensory Feature Space of Human Speech Recognition</i> | 06/01/15 - 05/31/17 |
| David Marciano, BCM | Olivier Lichtarge, BCM; Tim Palzkill, BCM | <i>Using Sequence Information to Predict and Control Structure-function Relationships in the LexA Repressor of the Bacterial SOS Response to DNA Damage</i> | 10/01/10 - 09/30/12 |
| Kirt Martin, BCM | John Weinstock, BCM; Kim Worley, BCM | <i>Prokaryotic genome organization</i> | 01/01/03 - 12/31/03 |
| Susan McGovern, BCM | Wah Chiu, BCM; John Weinstein, MDACC | <i>Developing a web-based algorithm for protein structure mapping of nsSNP data from The Cancer Genome Atlas</i> | 10/01/10 - 09/30/11 ARRA |
| Natasha Mehdiabadi, RU | Joan Strassmann, RU; David Queller, RU; Shaw, BCM | <i>The evolution of cooperation and conflict in the social amoeba, Dictyostelium discoideum</i> | 01/01/03 - 12/31/03 |
| Rose Mikulski, BCM | Timothy Palzkill, BCM; Rudy Guerra, RU | <i>Analysis of Metallo-Beta-Lactamase Sequence Constraints at High Resolution</i> | 06/01/13 - 05/31/15 |
| Bartlett D. Moore IV, UTH | Nitin Tandon, UTH; Xaq Pitkow, BCM | <i>Spectro-spatial Topography of Human Cerebral Cortex</i> | 06/01/14 - 05/31/16 |
| Dan Morgan, BCM | Olivier Lichtarge, BCM; Timothy Palzkill, BCM | <i>Focused Optimization of Peptide Inhibitors of Protein-Protein Interactions</i> | 10/01/09 - 12/16/10 |
| Tyler Moss, MDACC | Prahlad Ram, MDACC; Deepak Nagrath, RU | <i>Modeling Metabolic Activity of Tumors</i> | 05/01/14 - 04/30/15 |
| David Noren, RU | Amina Qutub, RU; Steven Kornblau, MDACC | <i>The Proteomics of Acute Myeloid Leukemia: Linking Protein Signatures to Patient Prognosis</i> | 01/01/14 - 12/31/16 |
| Elizabeth Ostrowski, RU | Joan Strassman, RU; David Queller, RU | <i>Uncovering Patterns of Selection on Social Genes in Dictyostelium Discoideum</i> | 01/01/07 - 12/31/08 |

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| Matthew I. Peña, RU | George Bennett, RU; Lydia Kavradi, RU | <i>Pathfinding and Evaluating Novel Biosynthetic Routes to Pharmaceuticals</i> | 01/01/16 – 12/31/16 |
| David Power, UTMB | David Gorenstein, UTMB; Bruce Luxon, UTMB | <i>Analysis of the catalytic mechanism of human APE1 by ONIOM calculations and site-directed mutagenesis</i> | 06/01/02 - 08/31/03 |
| Christian JJ Ray, RU | Oleg Igoshin, RU; Robert Azevedo, UH | <i>Evolutionary Selection on the Biophysics of Molecular Networks and Gene Expression</i> | 06/15/08 - 06/14/10 |
| Jeffrey Gordon Reid, UH | B. Montgomery Pettitt, UH; George Fox, UH; John Miller, BCM | <i>Computational Identification of microRNAs and Their Targets</i> | 01/01/04 – 06/30/06 |
| Gustavo Rodriguez, BCM | Ted Wensel, BCM; Olivier Lichtarge, BCM | <i>Evolution-Guided Receptor Engineering</i> | 06/15/04 - 06/14/06 |
| Rafael Rosengarten, BCM | Gad Shaulsky, BCM; Rui Chen, BCM | <i>Transcription Network Analysis in Dictyostelium discoideum</i> | 06/01/13 - 05/31/15 |
| Gerda Saxer Quance, RU | Joan Strassmann, RU; Yuriy Fofanov, UH | <i>Assessing Genetic Variation in Dictyostelium discoideum at the Genome and the Gene Level Using New Sequencing Technology</i> | 06/15/08 - 06/14/10 |
| Jonathan Starkey, UTMB | Bruce Luxon, UTMB; Ronald G Tilton, UTMB | <i>Metabonomics of Diabetic Nephropathy</i> | 01/21/09 - 01/20/11 |
| Franklin P. Tamborello, UTH | Hongbin Wang, UTH; Jiajie Zhang, UTH | <i>Modeling Spatial Cognition in Complex Environments</i> | 10/01/09 - 06/24/11 |
| Len Y. Tanaka, UTH | Elmer Bernstam, UTH; Noriaki Aoki, UTH (deceased 01/05/14) | <i>Qubec: A Research Platform for Optimizing Searching the Biomedical Literature</i> | 6/15/2006-6/14/2007 |
| Morgan Taylor, MDACC | Anil Sood, MDA; Wah Chiu, BCM | <i>Platelet Forms and their Chemoevasive Functions</i> | 05/01/13 - 04/30/14 |
| Christian Seishin Uehara, UH | Ioannis Kakadiaris, UH; Peter Saggau, BCM | <i>A Mathematical Model of the Control of Ventilation</i> | 06/26/02 - 06/25/04 |
| Gary V. Walker, MDACC | Dean Sittig, UTH; Thomas Buchholz, MDACC | <i>Improving Adherence to Oncology Quality Guidelines using Integrated Clinical Decision Support in an Electronic Health Record</i> | 06/30/13 - 06/29/14 |
| Yong (Tony) Wang, MDACC | Nicholas Navin, MDACC; Gordon Mills, MDACC; Tertiary mentor Wenyi Wang, MDACC | <i>Investigating Normal Breast Tissue Mosaicism and Tumor Initiation in TNBC Patients</i> | 06/15/16 - 02/16/17 |
| Angela Wilkins, BCM | Olivier Lichtarge, BCM; Tim Palzkill, BCM | <i>Sequence and Structure Continuity of Evolutionary Importance Improves Protein Functional Site Discovery and Annotation</i> | 06/20/09 - 06/21/11 |
| Jingping Xu, UTH | Hongbin Wang, UTH; Todd R Johnson, UTH | <i>Influences of Positive Affect on Decision Making: A Neurocomputational Positive</i> | 10/01/09 - 09/30/10 ARRA |

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| | | <i>Psychology Approach</i> | |
| Yili Zhang, UTH | John Byrne, UTH; Steve Cox, RU | <i>Computational Modeling of the Molecular Mechanisms Contributing to Long-Term Memory</i> | 10/01/09 - 09/30/11 |

Former Short Term Trainees

| Trainee | Mentors | Project Title | Training Periods |
|----------------------------|--|----------------------|-------------------------|
| Drew Bryant, RU | Lydia Kavraki, RU | | 06/05/05 - 08/12/05 |
| Michael Cannon, TSU | Ananth Annapragada, UTH | | 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 |

RU = Rice University

Last updated 08/08/2017