HAROLD RAY (Skip) GARNER, Jr.

Harold R. "Skip" Garner

HOME/ UNIVERSITY /PRIVATE BUSINESS ADDRESS:
182 Iron Works Ln
Harmony, NC 28634
(214) 924-8364 Cell
skipgarner@gmail.com

PROFESSION: Experimental Research Physicist and Biomedical Researcher.

SECURITY CLEARANCE: DoD Secret (no longer active)
DOE 'Q' (no longer active)

MARITAL STATUS: Married to Kim Menier, Medical Anthropologist, Brand Planner, Consultant and CEO

EDUCATION:
B.S. (Nuclear Engineering) University of Missouri, Rolla (1976)
M.S. (Nuclear Engineering) University of Wisconsin, Madison (1978)
Ph.D. (Plasma Physics) University of Wisconsin, Madison (1982)
P.E. (Nuclear Engineering, honorary) University of Missouri, Rolla (1994)

PhD. THESIS TOPIC:
"Low-Frequency Turbulence, Particle and Heat Transport in the Wisconsin Levitated Octupole" written under the direction of Professor R.S. Post.

WORK EXPERIENCE:
1974 to 1976 - Announcer/Technician at KMNR FM Radio, Rolla, Missouri
1976 - Nuclear Engineer, INSITE Program at Argonne National Laboratory, Chicago, Illinois
1976 to 1982 - Research Assistant in Plasma Physics at University of Wisconsin
1979 to 1980 - Technical Advisor/Consultant for LaFollette, Anderson, Sinkin, and Munson Law Firm, Madison, Wisconsin
1982 to 1986 - Senior Scientist for Fusion Division at General Atomics in San Diego
1986 to 1994 - Appointed to the Institute for Development & Application of Advanced Technology at General Atomics
1990 to 1994 - Scientific Advisor and founder of HELIX, biotech spinout of General Atomics
1991 to 1993 - Principle Scientist and founder of the Biosciences Division, General Atomics
1993 to 1994 - Senior Staff Scientist for the Biosciences Division, General Atomics
1994 to 1998 - Associate Director, Genome Science and Technology Center, UTSW
1999 to 2002 – Program Chair, Biomedical Engineering, UTSW/UTA
1999 to 2006 - Founding member of the Center for Biomedical Inventions, UTSW
1994 to 2009 – P. O'B Montgomery Distinguished Chair in Developmental Biology, Professor of Biochemistry and Internal Medicine, McDermott Center for Human Growth & Development, founding member of the Division of Translational Research, Internal Medicine Department, UTSW
2009 to 2012 – Executive Director, Virginia Bioinformatics Institute, Virginia Tech, Professor, Depts. of Biological Sciences and Computer Science
2012-2015 – Medical Informatics and Systems Division Director, Virginia Tech, Professor, Depts. of Biological Sciences and Computer Science

2009-2019 – Professor of Medicine, Virginia Tech Carilion School of Medicine
2007-2020 - Chief Scientist, Heliotext
2011-present - Chief Scientist, Orbit Genomics (previously Genomeon)
2015-2018 - Founder and Chief Scientist, Quanta Lingua and Comperity
2015-2019 - Founding Executive Director, Office of Medical Informatics, Translation, Training and Ethics
2016-present – Professor of Biomedicine, Edward Via College of Osteopathic Medicine (VCOM)
2016-2022 - Executive Director, Primary Care Research Network and the Center for Bioinformatics and Genetics, VCOM
2017-present - Senior Research Member, Gibbs Cancer Center
2018-2022 – Associate Vice Provost for Research Development, VCOM
2022-present – Assistant Vice Provost for Research, VCOM
2019-2022 – Interim Associate Dean for Biomedical Affairs, VCOM Carolinas
2022-2023 - Associate Dean for Biomedical Affairs and Research, VCOM Carolinas
2022-present – Founder and Director, Dark Matter Habitat, 501c3

ORGANIZATIONS (past and present):

AAAS, AACR, Biophysical Society, American Physical Society, HUGO, IEEE, The Cousteau Society, Fusion Power Associates, Japan Karate Association, Planetary Society, San Diego Zoological Society, Tau Beta Pi, Who's Who, Who's Who of California, Fine Woodworkers Association, Sigma Xi, American Association of Cancer Researchers, American Institute for Medical and Biological Engineering (AIMBE), American Cancer Society, Society for Genome Biology and Technology, International Society of Computational Biology

HONORS/PROFESSIONAL ACTIVITIES:

Fellow of the American Institute for Medical and Biological Engineering
Charter member of the Academy of the School of Mines and Metallurgy and Order of the Golden Shillelagh, University of Missouri - Rolla
Advisor and program reviewer (current or previously) for: Drosophila Genome Center Advisory Committee, Berkeley, CA; Program reviewer for the National Institutes of Health, National Center for Human Genome Research, National Cancer Institute, SBIR program, Sequencing Advisory Group, NIH MIDAS steering committee; Program reviewer for the Department of Energy, Office of Health and Environmental Research, DOE Human Genome Subcommittee, BERAC; Steering Committee on Analytical Instrumentation for the National Science Foundation, reviewer for National Science Foundation; reviewer for NASA Mars Rover and Scout Missions; advisor to the National Research Council; Advisory Board, North Texas Life Science Society; reviewer for Genome Canada, reviewer for State of South Carolina, U.S. Department of State, NIH Director's Pioneer Awards, NIH Director's New Innovator Awards, John D. and Catherine T. MacArthur Foundation, Dutch Cancer Society, UK Medical Research Council, Qatar National Research Fund (QNRF).
Ex-member of the NIH/NCI Cancer Biomarkers (CBSS) study section.
Chair of study section for Susan G. Komen Breast Cancer Foundation
Chair of the NASA ASTID review group, 2009
Journal reviewer for: Genomics, Nature Biotechnology, BioTechniques, Review of Scientific Instruments, IEEE Spectrum, Nature Genetics, Nature Communications, Oncology, Bioinformatics, Biomed Central Genomics, Nucleic Acids Research, Royal Society of Chemistry Journals, PNAS, IEEE Journal of Biomedical and Health Informatics.

Associate Editor for IEEE Engineering in Medicine and Biology, Scientific Computing and Automation, IEEE Transactions on Automation Science and Engineering, Editorial Board of the Journal of the Society for Experimental Biology and Medicine
Scientific Advisory Board for Stratagene (no longer active), TissueGen (no longer active), MWG (Germany, no longer active), GeneTraks (Australia, no longer active), Vitruvius Biosciences (no longer active), The Texas Japan Genomics Corporation (Japan, no longer active), BioAutomation, Nimblegen, Inc. (no longer active after acquisition by Roche), Vindauga Ventures (no longer active), BioCemi (no longer active), Cloud Pharmaceuticals (no longer active), Iridia
Founder of Light Biology (acquired by Nimblegen, now Roche), BioAutomation (acquired by LGC), Xanapath, LLC (no longer active); HelioText, LC (no longer active); Deltateq Instruments, Inc (no longer active); Genomeon/Orbit Genomics;
Founding member of MacroGenics, Inc.
Founder of United Community Bank (http://www.unitedcommunity.com/), acquired 2013
University Committees on Internet Security, BME JGSC, REISSCO (electronic resources advisory committee), Clinical Registry (while at UTSW)
External Advisory Committee, Carolina Center for Genome Sciences, UNC
Advisory Council, Green Center for Systems Biology Science, UTD
Advisory Board of the Hong Kong – Europe New Life Science Seed Capital Fund
Invited Lecturer, King's College Summer School, London – "Bioinformatics for Geneticists"
Finalist, 2008 Tech Titan Awards, Metroplex Technology Business Council
Postdoctoral Mentor of the Year, 2008
Advisor, Department of Health and Human Services, 2009
Reviewer, Singapore Biomedical Research Council, 2009
Finalist, 2009 Tech Titan Awards, Dallas Metroplex Technology Business Council
Adjunct Professor, Biomedical Engineering, University of Texas - Arlington
Board, Blacksburg Electronic Village, Inc.
Academic Council, Virginia Tech Carilion School of Medicine
Virginia Tech 6-year Strategic Planning Committee
Fellow of the Virginia Tech Honors Residence College
Scieneering (HHMI) Advisory Board
Founding member of Virginia Tech Autism Center
Member of working group at the Virginia Economic Development Partnership
Advisor/presenter, National Academies of Science, February 2013
Panelist and member, New York Academy of Sciences, April 2013
Board of Advisors, Scientific American
Board member, VaBio and VaBio Foundation
Scifoo, 2014
Member, Virginia Governor's Committee on Bio Business
Chair, NIH/NCI Informatics Technology for Cancer Research (ITCR) Study Section
Consultant, National Academies of Medicine
Winner (with Fred Rawlins and Cameron Sumpter), AACOM SOME Innovation in Medical Education Award – Marguerite Elliot Award 2020
Ordained minister, Universal Life Church

OTHER PROFESSIONAL ACTIVITIES (past and current):

Organizer of the Human Genome Automation Special Interest Group, with Glen Evans (Salk) and Jeff Quint (Beckman Instruments).
Outreach Coordinator for Biosciences Division at General Atomics.
Executive Advisory Committee for the Small Manufacturers Automation Resource and

Training Center at the St. Louis Community College.
Chairman of the Advisory Board for Kid Lab, a Science Program for Young People in San Diego, California.
Lecturer in High Temperature Superconductivity, Advanced Materials and Biotechnology for Kid Lab in San Diego, California.

RESEARCH SPECIALTIES:

Plasma Physics - International Cooperation and Program Principle Investigator in Mirror Confinement Systems, ICRF and ECRF Heating, Plasma Diagnostics, Tokamak Edge Physics, Pump Limiters and Divertors, Advanced Fuel experiments on Levitated Octupole, Stellarators, Mirror Cusp Experiments, Plasma-Acoustic Interactions, Plasma Based Low Energy Neutral Sources, Transport, Tandem Mirror Physics
Biotechnology - Microwave Spectroscopy of Macromolecules (DNA, Proteins, etc.), Microwave and Spectroscopic Diagnostic Development, Resonant Acoustic Damping in DNA, Recombinant DNA, PCR Amplification, Optical Diagnostic Development/Commercialization, Bioreactors, YACs, Superfluorescence, DNA Sequence Analysis/Informatics, Automation/Robotics, Protocol/Methods development, STM/AFM, Hyperspectral Imaging, Biological Arrays, Biomedical Text Data-Mining, Pharmaceutical Development, Evolution, Proteomics, Tissue Engineering, Drug Discovery
Genetics/Genomics – High throughput sequencing, microarray development and analysis, cancer biomarker discovery and pursuit, pathogen/host forensics
Computer Science - Expert Systems Application/Knowledge Base writer, Data Acquisition, Fortran, Assembler, C, ADA, Operating system use from Macintosh to Linux Clusters, Registered Macintosh and Hewlett Packard product developer, Parallel processing using transporter arrays and superparallel computers and clusters, Data Mining
Optics – Hyperspectral Imaging, Holographic Projection/3D TV, spectrophometric instrumentation, Variable Spectrum Sources, UV image projection
Accelerator Physics - Design/Construction/Testing of IXRS, a new Microwave driven electron cyclotron
Acoustics - Acoustic Levitation, Particle Agglomeration, Acoustic modes in solids, Acoustic Enhanced Plasma Breakdown, SAWs, Chromosome Sorting
High Temperature Superconductivity - Solid State NMR and wire coating
Electronics - High and Low Frequency Analog, Digital, High Voltage, High Power, Pulsed, 3rd Class Radio Telephone Operator
Microwaves - High Power Plasma Heating and Diagnostics to 140 GHz, Homodyne and Heterodyne Systems, component development
Lasers - Pulsed and CW lasers for plasma diagnostics, Excimer laser development
Reactor Physics - Reactor Operations and Fermi Chopper design/construction/use at University of Missouri Research Reactor
Radiation Shielding/Monitoring - Instructor for a laboratory class at University of Wisconsin, Madison
Submarine Stealth and Communications, Thermonuclear Weapons, UAVs, SDI –
Nanotechnology – Nanopatterning driven cell response, Nanotube vectors, QD applications
Forensics and Paternity – Expert witness, consultant
Patent Novelty Assessment, Challenges – Expert witness, consulting
Scientific Publication Ethics – Expert, lecturer, consulting
Grant/Contract Fraud, Integrity and Ethics – Expert witness, consulting, Qui Tam
Syndromic Surveillance and Response – Pandemic prediction

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PUBLICATIONS:

My publications list includes books, papers in refereed journals, invited talks, non-refereed journal papers, internal reports at General Atomics, Institute of Plasma Physics at the University of Nagoya-Japan, the University of Wisconsin, and conference abstracts.

PATENTS:

Methods and Systems for Microsatellite Analysis, provisional filed April 2019, PCT/US20/29145 filed; June 16, 2022 as Publication No. US-2022-0189583-A1; also published in China, India, Hong Kong, Japan

ICD Logging System (with Fred Rawlins), provisional conversion filed June 22, 2018; European Patent Office has published patent no.EP4016544A1

Somatic variation quantification of genomic stability as a diagnostic for DNA repair deficiencies, (with Zalman Vaksman), USPTO provisional, 2014, converted, 2015

Methods and Compositions for Identifying Global Microsatellite Instability and for Characterizing Informative Microsatellite Loci, (with McIver and Tae), PCT filed December, 2013

Methods and Compositions for Identifying Global Microsatellite Instability and for Characterizing Informative Microsatellite Loci, provisional application 61/737,919 filed December 17, 2012

Methods for discovering molecules that bind to proteins, Application No.61/452,025

Global germ line and tumor microsatellite patterns are cancer biomarkers, US UTSD-2177

Method and composition for the treatment of cardiac hypertrophy (with Mounir Errami) – US 2008/0305186 A1

A computer-based method for creating collections of sequences from a dataset of sequence identifiers corresponding to natural complex biopolymer sequences and linked to corresponding annotations – 7,065,451

Computer Program products, Systems and Methods for Information Discovery and Relational Analyses – Filed, Japan

Holographic Projector- 7,738,151

Informational Discovery and Relational Analysis using the IRIDESCENT system – Filed in US, Japan and Australia

Prediction of disease-causing alleles from sequence context – Filed

A program for Microarray Design and Analysis – 7,065,451

Digital Micromirror Holographic Projector – 6,646,773

eTBLAST, a text search tool – Filed

Identification of Chemically Modified Polymers – Filed

Devices, Methods and Systems for High-resolution High-throughput Genetic Analysis – Filed

Optical Correlator using Spatial Light Modulation Illumination (with R. Gale, TI) – 6,819,807

Variable Spectrum Synthesizer – 6,657,758

Polymorphic Repeats in Human Genes – 6,472,154

Hyperspectral Imaging Microscope – 6,337,472

Digital Optical Chemistry Micromirror Imager – 6,295,153, 7,785,863

Digital Optical Chemistry Micromirror Imager – Divisional Filed

Digital Optical Chemistry Micromirror Imager – Conversion Filed

Hyperspectral Slide Reader – 6,160,618

Automatic Sequencer/Genotyper Having Extended Spectral Response - 5,871,628 and 6,427,126

Micropipette Adaptor for Spectrophotometers - No. 4,991,958 and NI-48394 Taiwan

Coaxial Microwave Absorption Diagnostic - No. 4,990,858
Spectrophotometer to Flurometer Convertor (with L. Peranich) - No. 5,094,531
Micropipette Adaptor for Spectrophotometers with Temperature Control - No. 5,092,674
Micropipette Adaptor for Spectrofluorometers - No. 5,104,218
Assembly for converting a Spectrophotometer to a Fluorometer - No. 5,166,743
Micropipette Adaptor with Temperature Control for PCR Amplification - No. 5,241,363
Micropipette Adaptor for Spectrofluorometers having an Integrated Optical System -
Coated Capillary Tube for Controlled Release of Reagents (with O. Tuason, L. Peranich) – No.5387526
Automated Method for Determining the Base Sequence of a Nucleic Acid Chain - (with M. Alringer and G. Shephard) -
Multi-Well Microtiter Tray (with G. Shephard) - US patent to issue, No. 0922905 (France) and No. M 90 03 555.8 (Germany)

RESEARCH FUNDING HISTORY:

1983 - 1988, DoE contract for International (Japan) Plasma Physics Studies, initially $150k/year to ~$650k/year.
1992 - 1994, NIH grant, High-Throughput Screening of YAC Libraries, as part of the program project grant, Glen Evans (The Salk Institute), director, ~180k/year, my part.
1992 - 1995, NIH grant, High-Throughput HGP Automation System, ~$588k (3 year).
1994 - 1998, co - PI with Glen Evans, NIH GESTEC grant, UT - Southwestern Genome Center, ~$16M, (4 year), $1M/year my part
1995 - 1997, PI " Optoelectronic Hybridization Microsensor", Whitaker Foundation, ~800k$, (4 year).
1996 - 1997, co - PI with Glen Evans, DoE grant, A PAC end-sequence Database for Human Genomic Sequencing, $100k/yr my part
1996 - 1997, PI, Texas Instruments grant, Optical Hybridization Microsensor and Beyond, like in kind value, $100k
1997 - 2000, co - PI with Ron Butow, NIH/NCI R01 grant, The Large-scale Functional Analysis of the Yeast Genome, $150k/yr (3 years)
1998 - 2000, co-PI on a Developmental Grant as part of UTSW/MD Anderson cancer SPORE, John Minna, MD on NIH/SPORE grant, ~$130k/year
1998 - 2002, PI on sponsored research agreement with Beckman Instruments, like in kind value of $500k
1998 - 2000, PI on DOE grant, Technology Support for JGI and SPF, $493k, (2 years)
1999-2001, Investigator on Reynold's Foundation Cardiac Disease Center grant, $24M (4 years), my part $600k/year (4 years)
1999 – 2004, PI on Software and Instrumentation for the Identification of Cancer Genes, NIH/NCI grant, $625k/year (3 years)
1999 – 2001, PI on SNooP-A directed search for genetic variation, State of Texas Advanced Research Projects grant, $198k/yr (2 years)
1999 - 2001, Co-PI on Hyperspectral Microscopic Imaging, State of Texas Advanced Research Program, $143k/year (2 years)
2000 – 2004, PI Genomics and proteomics of cell injury and inflammation, NIH/NHGRI program project grant, $1.05M/year (3 years)
2001 – 2003, PI Phase-controlled Imaging with Digital Light Processing, Texas Advanced Research Projects grant, $125,000/year (2 years)

2002 – 2009, PI, NIH/NCI Lung SPORE Bioinformatics Core, ~$120k/year (5 years, renewal submitted for next 5 years)
2002 – 2009, PI, NIH/NHGRI Proteomics Center, ~$530k/year (7 years)
2002 – 2009, Hudson Foundation, $40k (year 1), $60k (year 2)
2002 – 2005, Investigator, BioThreat Center, UT Austin, Steven Kornguth, PI., $20k/year
2003 – 2006, PI for NIH R01 grant, Microsatellites and their role in cancer, $260k/year (3 years)
2003 – 2009, PI for Computational Biology Core for Midwest Regional Center of Excellence, NIH/NIAID, $350k/year
2006 – 2007, Phase I NASA SBIR with Lynntech, Monitoring stress on high altitude balloon materials using hyperspectral imaging, $100k
2007 - 2010, NIH/NLM R01 grant, Duplicate and Plagiarized Articles in Medline, $1M
2007 – 2008, Three Phase I SBIRs with Lynntech, Monitoring stress on parachute materials using hyperspectral imaging (NASA), and Protein ligand discovery process (US Army), NIH/NCI Ligand production for cancer research, $100k
2007 – 2010, Project leader, Foreign Animal Zoonotic Disease Center, Texas A&M (Department of Homeland Security funded), $900k
2008 – 2011, Phase II SBIR with Lynntech, Protein ligand discovery process, US Army, $1M
2010 – 2013, NIH/NHGRI R01, Microsatellite analysis of 1000 Genomes Project Sequence, ~$270k/yr, 2 years.
2011- 2016, NSF/STCI, Determining Feasibility and Scalability of a Life/Medical Science Hybrid-core Based Platform, ~$400k/yr. 3 years
2011-2014, NIH/SBIR phase II with Lynntech, $1M
2012-2015, Commonwealth of Virginia, Genetic Reassessment after Induction in Advanced Non-Small Cell Lung Cancer, $100k
2013-present, Genomics of Meduloblastoma with Dr. B. Rood, $200k+ (several smaller grants), sub to Children's National Medical Center
2015-present, Carilion Clinics RAP grant with Dr. S. Almahameed, Microsatellite Biomarkers for Atrial Fibrillation, $50k
2016-present, Bradley Engineering Foundation grant, $1.5M
2016-2017, REAP grant in Autism, $50k
2016-2017, REAP grant in Mass Casualty Response, $50k
2017-2018, REAP grant in Anatomy Genomics, $50k
2018-present, REAP grant in Alzheimer's disease diagnosis and treatment optimization, $50k
2018-2020, HHS Office of Research Integrity grant, $200k
2020-present, Lung Cancer Risk Diagnostic trial, Orbit Genomics
2020-present, Pancreatic Cancer, Type II Diabetes Risk Diagnostic development, Orbit Genomics
2022-present, Syndromic Surveillance, Defense Intelligence Agency, $140k

PHD, MD AND MASTERS STUDENTS MENTORED:

Kari Kukanskis - M.S., BME 1998, Molecular Staging
Jeff Zavaleta - UT Austin Undergraduate Thesis Reader, 1998, UTSW Med School
Ashwine Pande Patil - M.S., BME 1999, Biosciences Dept., Univ. of Osaka
Greg Miller - PhD. BME 1999, Cumbre, Inc.
Jeff Zavaletta – M.D., 2000,
Raynal Ruch – M.D., 2000,
Varshal Dave – MS, Cell and Molecular Biology, 1000, Axon, Inc.
Robert Balog - Ph.D., BME and Cell and Molecular Biology, 2003, US Army Active

Amit Kulkarni – M.S., BME, 2002, Rosetta Informatics/Merck, Inc
Trey Fondon - Ph.D., Biophysics, 2003, post-doc, independent fellow, UTSW
Andrew Boyd – M.D., 2003, Assistant Professor, University of Chicago
Jonathan Wren - Ph.D., Cell and Molecular Biology, 2003, Univ. of Oklahoma
Elizabeth Cronin – Ph.D. BME, 2003 (with Kevin Nelson), new mother
Monica Hovarth – Ph.D. 2004, Cell and Molecular Biology, UTSW, NIEHS
Steve Crozier – Ph.D., Biophysics, UTSW (dropped out to start company)
Ryan Weil - Ph.D. 2006, Cell and Molecular Biology, UTSW, Roche
Nishanth Marthandan – M.S. 2006, BME, UTSW, bioinformaticist
Jose Cabrera – M.S., 2006, Biomedical Communications, UTSW, free-lance in Dallas
Dipanjana Bhattacharya – Ph.D., Biophysics, UTSW
Robert Longnecker – M.S., BME, UTA (changed to non-thesis, 2007)
Vinayak Kulkarni – M.S. 2007, BME, UTSW
Amruta Joshi – M.S., BME, UTA
Sasidhar Katari – M.S., BME, UTA
Dipen Rana - M.S., BME, UTA
Sandhya Mitnala - M.S., BME, UTA
Neil Kumar – MD with research distinction, UTSW, now at Hopkins
Shamira Shallom – Ph.D. 2012, GBCB (Genomics, Bioinformatics, Computational Biology), Virginia Tech, NIH
Iccha Sethi – M.S. 2012, Computer Science, Virginia Tech, now at Rackspace
Jonathon Freezer – M.D., VTC School of Medicine, now at Geisinger Medical Center
Caroline K. Osborne – M.D. candidate, VTC School of Medicine, deceased
Elizabeth Glazier – M.D., VTC School of Medicine
Rebecca C. Kirschner – M.D., VTC School of Medicine
Heather Lewenczuk – PhD candidate, GBCB, Virginia Tech
Ashwin Puthige – MS, Virginia Tech
Zalman Vaksman – PhD, GBCB, Virginia Tech, now at Penn
Karthik Valmarugan - PhD, GBCB, Brigham and Woman's Hospital

POST DOCTORAL FELLOWS MENTORED:

John "Trey" Fondon – Post-doc, Bioinformatics/Genetics (now, UTA faculty)
Yuri Belosludtsev – Post-doc, Chemistry (now CEO of Vitriviouis Biosciences)
Simon Rayner – Post-doc, Instrumentation (now CSO of BioAutomation)
Ping Li – Post-doc, Bioinformatics (current association unknown)
Kevin O'Brien – Post-doc, Instrumentation (now at Merck,Inc.)
Jim Yan – Post-doc, Bioinformatics (now at Almac Diagnostics)
Shawn Roach – Post-doc, Chemistry (now at EyeTech)
Alex Pertsemlidis – Post-doc, Bioinformatics (now Greehey Children's Cancer Research Institute)
Kevin Tang – Post-doc, Bioinformatics (now at the CDC)
Jing Shen – Post-doc, Bioinformatics (now at UTSW microarray core)
Yun Lian – Post-doc (MD), Bioinformatics (now independent consultant, Dallas)
Tracy Xu – Post-doc, Bioinformatics (now at PA school at UTSW)
Evgeni Poliakov – Post-doc, Instrumentation (now at Redstone Arsenal)
Elizabeth "Lena" Flood – Post-doc, Molecular Biology (now at Nomadics)
My-Hanh Nguyen – Post-doc, Bioinformatics and Genomics (now at Roche)
Ellen King – Post-doc (MD), Bioinformatics and Drug discovery (pathology resident, UTSW)
Mike Huebschman – Post-doc, Instrumentation (now staff at UTSW)

Wayne Fisher – Post-doc, Bioinformatics (now staff at UTSW)
Mounir Errami – Post-doc, Bioinformatics (now MD student at UTSW)
Cristi Galindo – Post-doc, Genomic data interpretation (now at Vanderbilt)
Jenni Weeks – Post-doc, Genomic data analysis and pathogen detection (now, St Jude Children's Research Hospital)
Hongseok Tae – Post-doc, Bioinformatics and deep sequence analysis (now at Caris)
Jasmin Bavarva – Post-doc, Microsatellite analysis of mutagen exposures (now at Leidos)
Natalie Fonville - Post-doc, Role of microsatellites in neurological disorders, patent agent
Wyatt McMahon - Post-doc, Bioinformatics and data interpretation analysis (now faculty at John's Hopkins)
Enusha Karunasena - Post-doc, Bioinformatics and data interpretation analysis (now consultant, Maryland)
Zalman Vaksman – Post-doc, Bioinformatics and genome stability (now at Penn)
Nick Kinney – Post-doc, Bioinformatics and Genomics (now at Orbit Genomics)
Robin Varghese – Post-doc, Bioinformatics and Genetics, VCOM
Ramu Anandakrishnan – Post-doc, Bioinformatics and Mathematics, VCOM
Karthik Valmarugan - PhD, Bioinformatics and Genetics (now at Brigham & Woman's)

TEACHING and LECTURING:

UTSW:

Div. of Cell and Molecular Biology Core Course – Bioinformatics
Human Genetics – Bioinformatics
Introduction to Biomedical Engineering – Biocomputing and Technology
Lab Principles in Biomedical Engineering – Bioinformatics
Ethics
Proteomics Special Course
Experimental Approaches to Human Biology and Disease (UTSW MD/PhDs)
Summer Workshop for Div. of Cell and Molecular Biology – Microarrays
UTSW Library course – Text data searching and mining

Other:

Invited Lecturer, 2007, 2009 and 2013, King's College Summer School, London: "Bioinformatics for Geneticists", typically teaching 5 one-hour sections in a week.
CME instructor, Oncology and Cardiology Departments, Carilion Clinics, 2011-2012
Lecturer, Masters in Management of Clinical Informatics program, Duke, 2012-2014
Lecturer, Responsible Conduct of Research course, Weill Cornell Medical College, 2013-2015

Virginia Tech:

Lecturer in Medical School, various Virginia Tech courses
System Biology, 2015

VCOM:

Pharmacogenomics and Precision Medicine, 2016
Tools of Genetic Medicine I, II, 2016
CME Genetics: Defining Reliable Genetic Testing and Information in the Prediction and Treatment of Disease
CME Genetics: Genetics and Personalized Medicine: What is the Future?
GME: Scholastic activity and how to do research for medical residents
Created Self Directed Learning modules for DO with Research Distinction Program and 3rd/4th year Research Rotation

HOBBIES:

HAROLD RAY (Skip) GARNER, Jr.

Karate (Shotokan - presently 1st degree Black Belt and Instructor), Aikido, Woodworking, Photography, Camping, SCUBA Diving, Surfing, Snowboarding/snowbiking, Bicycling, Oil Painting, Long range target shooting, Dog, Horse, Bird and Lost Soul Rescue.

01-24-2023