Julia Cluceru Email: julia.cluceru@ucsf.edu Mobile: +1-203-536-9771

EDUCATION

University of California

Ph.D. in Pharmaceutical Sciences and Pharmacogenomics

San Francisco, California Sept. 2015 - July 2020 (exp)

University of North Carolina

B.A. Mathematics, B.A. Chemistry, GPA 3.53

Chapel Hill, NC

Sept. 2009 - May 2013

Publications

• Nesmith JE, Chappell JC, Cluceru JG, Bautch VL.: "Blood vessel anastomosis is spatially regulated by flt-1 during angiogenesis", Development. 2017 Mar 1;144(5):889-896.

- Chappell JC, Cluceru JG, Nesmith JE, Mouillesseaux KP, Bradley VB, Hartland CM, Hashambhoy-Ramsay YL, Walpole J, Peirce SM, Mac Gabhann F, Bautch VL.: "Flt-1 (VEGFR-1) coordinates discrete stages of blood vessel formation", Cardiovasc Res. 2016 Jul 1;111(1):84-93
- Walpole J, Chappell JC, Cluceru JG, Mac Gabhann F, Bautch VL, Peirce SM.: Agent-based model of angiogenesis simulates capillary sprout initiation in multicellular networks, Integr Biol (Camb). 2015 Sep;7(9):987-97

ACADEMIC RESEARCH EXPERIENCE

Lupo Lab, UCSF

Sab Francisco, CA

Ph.D. Candidate April 2017 - Present

o Advisor: Asst. Professor in Residence, Janine Lupo, Ph.D., UCSF Department of Radiology and Biomedical Imaging

• Proposed Dissertation Title: Proposed dissertation title: Multiparametric Magnetic Resonance Imaging to Predict Tumor Biology

Bautch Lab, UNC-CH

Chapel Hill, NC

Undergraduate Research Assistant

Sept. 2011 - Aug. 2013

- o Advisor: Professor Victoria Bautch, Ph.D., Beverly Long Chapin Distinguished Professor and Chair of Biology
- Angiogenesis research project: Quantifying the effects of Flt-1 (VEGFR-1) on mouse embryonic stem cell blood vessel formation

McLaughlin Lab, UNC-CH

Chapel Hill, NC

Undergraduate Research Assistant

Sept. 2010 - June 2011

- o Advisor: Professor Richard McLaughlin, Ph.D., Chair of Mathematics
- Fluid dynamics research project: Designed and filmed fluid dynamics experiments for support of the project "Settling dynamics of solid spheres in viscous stratified fluids: the entrainment dominated regime"

McManus Lab, Columbia University

Lamont-Doherty Earth Observatory, Palisades, NY

NSF Research Experience for Undergraduates Fellowship

Summer 2011

- o Advisor: Professor Jerry F. McManus, Ph.D., Dept. of Geochemistry
- Particle dyanmics research project: Researching the biochemical flux of particles settling on the ocean floor using oceanic cores derived from the Atlantic ocean. Discovered a major oceanic circulation change 125kyr during a historic global warming period, informing prediction of future oceanic circulation changes due to global warming.

TEACHING EXPERIENCE

Tutor Corps

San Francisco, CA Dec. 2015 - pres.

Test Preparation and Academic Tutor

- o Mathematics: Elementary math, algebra, geometry, pre-calculus, calculus, AP statistics, AP Calculus
- o Science: Elementary and middle school science, biology, chemistry, physics, AP Biology, AP Chemistry
- o Test Preparation: SAT Mathematics, ACT Mathematics, ACT Science, SSAT, SAT II Chemistry, SAT II Mathematics 1 & 2

Drugs of the Central Nervous System, UCSF School of Pharmacy

San Francisco, CA

Teaching Assistant

April 2017 - June 2017

- o Advisor: Associate Professor Pamela England, Ph.D.
- Responsibilities: Oversight of student-led presentations, grading assignments

Greenwich Education Group

Greenwich, CT

Test Preparation and Academic Tutor

• Mathematics: Elementary math, algebra, geometry, pre-calculus, calculus, AP statistics, AP Calculus

- Science: Elementary and middle school science, biology, chemistry, physics, AP Biology, AP Chemistry
- \circ Test Preparation: SAT Mathematics, ACT Mathematics, ACT Science, SSAT, SAT II Chemistry, SAT II Mathematics 1 & 2

Freelance Madrid, Spain

Academic Tutor Aug. 2013 - July. 2014

• English As a Second Language: Reinforced and taught bilingual school students science and math in English.

Freelance

Chapel Hill, NC; Stamford, CT

Academic Tutor 2006 - Sep 2013

- o Mathematics: Elementary math, algebra, geometry, pre-calculus, calculus, AP statistics, AP Calculus
- o Science: Elementary and middle school science, biology, chemistry, physics, AP Biology, AP Chemistry

DISTINCTIONS & HONORS

- National Institute of General Medical Sciences Ruth L. Kirschstein National Research Service Award (NRSA) Predoctoral Institutional Research Training Grant (T32): Fellows receive 23,844.00 for research-related expenses. September 2017-September 2018
- Pi Mu Epsilon Math Honors society: Inducted in 2013
- Dean's List: Appeared on 7 out of 8 semesters at UNC-CH
- Test scores: MCAT: 36 97th percentile; PCAT: 442 99th percentile; GRE: 166 94th percentile; SAT: 2260 99th percentile

SKILLS

- Programming Languages: R, python, octave, bash, cshell, Linux environment
- Analysis: Data wrangling, imputation, machine learning, applied statistics
- Mathematics: Differential equations, multi-variable calculus, linear algebra
- Laboratory Technologies: Stem cell culture, PCR, live imaging microscopy, gel electrophoresis, cell fractionation

Presentations & Posters

- Nov. 2016: Hidden secrets of bulk tissue: Understanding glioma through meta-analysis of transcriptional data. Quantitative Biosciences Consortium Retreat Poster Session
- Aug. 2011: Piecing Together Ocean Circulation Changes: How the North Atlantic Circulation Changed from MIS 6 to MIS 5e. NSF REU Poster Session

Conferences

- March 2018: International Society for Magnetic Resonance Imaging Machine Learning Workshop Asilomar Conference Grounds, Monterey, CA
- March 2018: BioData World West, Invited Delegate Hotel Kabuki, San Francisco, CA
- May. 2017: Department of Radiology and Biomedical Imaging annual retreat
- Feb. 2017: American Association of Pharmaceutical Sciences InSight Asia-Pacific Research Symposium
- Feb. 2016: Immune checkpoint inhibition for Hypermutant GBM resulting from germline MMR deficiency. Quantitative Biosciences Consortium Journal Club
- Aug. 2011: Piecing Together Ocean Circulation Changes: How the North Atlantic Circulation Changed from MIS 6 to MIS 5e. NSF REU Poster Session

LEADERSHIP & PROFESSIONAL ASSOCIATIONS

American Association of Pharmaceutical Sciences

Member

San Francisco, CA 2016 - pres.

International Society for Magnetic Resonance Imaging

Trainee Member

San Francisco, CA 2017 - pres.

Big Brothers Big Sisters of America

 $Big\ Sister$

Chapel Hill, NC Jan 2010 - May 2013

o Anaies Gibson: Mentored and tutored Anaies for 3 years in all subjects

• Organizational support: Organized BBBS of the Triangle meetings at the Campus Y