CURRICULUM VITAE

Jennifer L. Güler, Ph.D.

Maiden name: Stephens

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EDUCATION

Doctorate of Philosophy. Johns Hopkins School of Medicine, Baltimore, MD. *Cellular and Molecular Medicine* (2007). Dissertation title: *Mitochondrial fatty acid synthesis and its contribution to trypanosome metabolism.*

-Biology of Parasitism Course at the Marine Biological Laboratory, Woods Hole, MA (2004).

Bachelors of Science. University of California Santa Barbara. *Microbiology* (2000).

-Education Abroad at the University of New South Wales, Sydney, Australia (1999).

POSITIONS & EXPERIENCE

Sept2022-present	Tenured Associate Professor, Department of Biology, University of Virginia
Aug2016-2022	Tenure Track Assistant Professor, Department of Biology, University of Virginia
Aug2013-present	Curtesy appointment, Professor of Research in Medicine, Division of Infectious Disease, School of Medicine, University of Virginia
Aug2013-July2016	Research Assistant Professor Department of Biology, University of Virginia
Sept2011-Aug2013	Senior Research Scientist, lab of Dr. Pradipsinh K. Rathod, Department of Chemistry, University of Washington
Jun2008-Sep2011	Postdoctoral Researcher, lab of Dr. Pradipsinh K. Rathod, Department of Chemistry, University of Washington
Jan-Mar2008	Volunteer Researcher for Dr. Clive Shiff, Malaria Institute, Johns Hopkins School of Public Health at the Malaria Institute at Macha, Zambia
Mar-Dec2007	Postdoctoral Researcher, lab of Dr. Paul T. Englund, Department of Biological Chemistry, Johns Hopkins School of Medicine

PEER REVIEWED PUBLICATIONS

SINCE ASSOCIATE PROF APPOINTMENT AT UVA (2022)

[#]UVA grad students, [$]UVA undergraduates, ^UVA collaborators, [&]International collaborators

34. Brown N[#], Luniewski A[#], Yu X, Warthan M, Liu S[#], Zulawinska J[#], Ahmad S[$], Prasad N[#], Congdon M, Santos W, Xiao F, **Guler JL**. (2026) Replication stress increases de novo CNVs across the malaria parasite genome. Jan 5;54(1):gkaf1436. PMCID: PMC12784960.
33. Brown N[#], Danis C[$], Ahmedjanova V[$], **Guler JL.** (2026) SVCROWS: a user-defined tool for interpreting significant structural variants in heterogeneous

datasets. *Nucleic Acids Research.* Jan 5;54(1):gkaf1440. PMCID: PMC 12784966.

32. Munzhedzi M, **Guler JL**, Krivacsy S, Shifflett P, Operario DJ, Dillingham R, McQuade ETR, Bessong PO. (2025). Prevalence of *Plasmodium* species in asymptomatic individuals in North-Eastern South Africa: 2018 – 2019. South African Medical Journal. Sep 2;115(8):e2273. PMID: 41378557.
31. Liu S[#], Ebel E, Luniewski A[#], Zulawinska J[#], Simpson ML[$], Kim J[$], Ene N[$], Braukmann T, Congdon M, Santos W, Yeh E, Egan E, **Guler JL**. (2025). Direct long read visualization reveals metabolic interplay between two antimalarial drug targets. *BMC Genomics*. Jul 17;26(1):671. PMCID: PMC12273453.
30. Thaloengsok S[&], Chaisatit C[&], Saingam P[&], Lertsethtakarn P[&], Spring M[&], Sriwichai S[&], Pholwat S^, **Guler JL**, Houpt ER^, Vesely BA[&]. (2024). Prevalence and dynamics of antimalarial drug resistance mutations among the *Plasmodium falciparum* isolates in TAK Province, Thailand, during the period of 1998-2001. *Antimicrobial Agents and Chemotherapy.* Sep 4;68(9):e0077924. PMCID: PMC11373219.
29. Brown N[#], da Silva C[&], Webb C[$], Matias D[&], Dias B[&], Cancio B[&], Silva M[&], Viegas R[&], Salvador C[&], Chivale N[&], Luis S[&], Arnaldo P[&], Zulawinska J[#], Moore CC^, Nogueira F[&], **Guler JL**. (2024). Antimalarial resistance risk in Mozambique detected by a novel quadruplex droplet digital PCR assay. *Antimicrobial Agents and Chemotherapy*. Jul 9;68(7):e0034624. PMCID: PMC11232384
28. Brown AC[#], Warthan AD, Aryal A[#], Liu S[#], **Guler JL**. (2023). Nutrient Limitation Mimics Artemisinin Tolerance in Malaria. *mBio*. Apr 25;e0070523. PMCID: PMC10294616
    - ***Article Highlight:*** Taglialegna, A. The path to more resistance (2023). *Nature Review Microbiology*. PMID: 37188804
27. Carey MA[#], Medlock GL[#], Stolarczyk M[#], Petri WA^, **Guler JL**, Papin JA^ (2022). Comparative analyses of parasites with a comprehensive database of genome-scale metabolic models. *PLOS Computational Biology*. 18(2):e1009870. PMID: 35196325.

SINCE TENURE-TRACK APPOINTMENT AT UVA (2016)

26. Liu S[#], Huckaby AC[#], Brown AC[#], Moore CC^, Burbulis IE^, McConnell MJ^, **Guler JL** (2021) Single cell sequencing of the small and AT-skewed genome of malaria parasites. *Genome Medicine*, May 4;13(1):75. PMCID: PMC8094492.
    - ***Article Highlight:*** De Niz, M. Tools for studying the AT-skewed genome of malaria parasites (2020). *PreLights*. https://prelights.biologists.com/highlights/single-cell-sequencing-of-the-small-and-at-skewed-genome-of-malaria-parasites/
25. Munzhedzi M[&], Rogawski McQuade ET^, **Guler JL**, Shifflett PE, Krivacsy S, Dillingham R^, Bessong PO[&]. (2021) Community knowledge, attitudes and practices towards Malaria in Ha-Lambani, Limpopo Province, South Africa: A cross-sectional household survey. *Malaria Journal*, Apr 17;20(1). PMCID: PMC8052774.

24. Kassaza K[&], Long AC[$], McDaniels JM[#], Andre M, Fredrickson W[&], Nyehangane D[&], Orikiriza P[&], Operario DJ^, Bazira J[&], Mwanga-Amumpaire JA[&], Moore CC^, Boum Y[&], **Guler JL** (2021). Surveillance of *Plasmodium falciparum* pfcrt haplotypes in southwestern Uganda by high-resolution melt analysis. *Malaria Journal*. Feb 25;20(1):114. PMCID: PMC7908690.

23. Huang X^, Torres-Castro K^, Varhue W, Salahi A, Rasin A, Honrado C, Brown A[#], **Guler JL,** Swami NS^. (2021) Self-aligned sequential lateral field non-uniformities over channel depth for high throughput dielectrophoretic cell deflection. *Lab on a Chip.* Mar 9;21(5):835-843. PMCID: PMC8019514.
    - Cover image for *Lab on a Chip* issue, named a 'Hot Article' of 2021

22. McDaniels JM[#], Huckaby AC[#], Carter SA[$], Lingeman S[$], Francis A[$], Congdon M, Santos W, Rathod PK, **Guler JL** (2020). Extrachromosomal DNA amplicons in antimalarial resistant *Plasmodium falciparum. Molecular Microbiology.* 14 October. PMID: 33053232
    - ***Article Highlight:*** Zhang X, *et al*. The contribution of extrachromosomal DNA to genome plasticity in malaria parasites (2020). *Molecular Microbiology*. https://doi.org/10.1111/mmi.14632

21. Brown AC[#], **Guler JL** (2020). From circulation to cultivation: *Plasmodium* in vivo versus in vitro. *Trends in Parasitology*. Nov 36(11):914-926. PMID: 32958385.

20. Brown AC[#], Moore CC^, **Guler JL** (2020). Cholesterol-dependent enrichment of understudied erythrocytic stages of human Plasmodium parasites. *Scientific Reports*. Mar 12;10(1):4591. PMCID: PMC7067793.

19. Brashear AM, Huckaby AC[#], Fan Q, Dillard LJ, Hu Y, Li Y, Zhao Y, Wang Z, Cao Y, Miao J, **Guler JL**, Cui L. (2020). New *Plasmodium vivax* genomes from the China-Myanmar border. *Frontiers in Microbiology.* 2020;11:1930. PMCID: PMC7432439.

18. Untaroiu AM[$], Carey MA[#], Papin JA^, **Guler JL** (2019). Leveraging the effects of chloroquine on resistant malaria parasites for combination therapies. *BMC Bioinformatics.* Apr 15;20(1):186. PMCID: PMC6466727.

17. Huckaby AC[#], Granum CS[$], Carey, MA[#], Szlachta K^, Al-Barghouthi B[#], Wang YH^, **Guler JL** (2019). Complex DNA structures trigger copy number variation across the *Plasmodium falciparum* genome. *Nucleic Acids Research*. Feb 28;47(4):1615-1627. PMCID: PMC6393310.

16. **Guler JL**, Rosenthal PJ (2018). Mass drug administration to control and eliminate malaria in Africa: how do we best utilize the tools at hand? *Clinical Infectious Diseases*. doi: 10.1093/cid/ciy871. (Guler is first & corresponding author)

15. Carey MA[#], Covelli V[#], Brown A[#], Medlock G[#], Haaren M[$], Cooper J, Papin J^, **Guler JL** (2018). Influential parameters for the analysis of intracellular parasite metabolomics. *mSphere*. Apr 18;3(2). PMCID: PMC5907652. (Carey and Covelli contributed equally)

14. Kassaza K[&], Operario DJ^, Nyehangane D[&], Coffey C, Namugosa M, Turkheimer L, Ojuka P[&], Orikiriza P[&], Mwanga-Amumpaire J[&], Byarugaba F, Bazira J[&], **Guler JL**, Moore CC^, Boum Y[&] (2017). Detection of *Plasmodium* species by high resolution melt analysis of DNA from blood smears acquired in Southwestern Uganda. *Journal of Clinical Microbiology*. Dec 26;56(1). pii: e01060-17. PMCID: PMC5744206.

13. Carey MA[#], Papin JA^, **Guler JL** (2017). Novel *Plasmodium falciparum* metabolic network reconstruction identifies shifts associated with clinical antimalarial resistance. *BMC Genomics*. Jul 19;18(1):543. PMCID: PMC5518114.

12. Pholwat S^, Liu J^, Stroup S^, Jacob S, Banura P[&], Moore C^, Huang F, Laufer M, Houpt E^, **Guler JL** (2017)**.** The Malaria TaqMan Array Card: 87 assays for *Plasmodium falciparum* drug resistance, speciation, and genotyping in a single reaction. *Antimicrobial Agents and Chemotherapy*. Mar 6. pii: AAC.00110-17. PMCID: PMC5404514.

SINCE RESEARCH-TRACK APPOINTMENT AT UVA (2013)

11. White J, Mascarenhas A, Pereira L, Dash R, Walke JT, Gawas P, Sharma A, Manoharan SK, **Guler JL**, Maki JN, Kumar A, Mahanta J, Valecha N, Dubhashi N, Vaz M, Gomes E, Chery L, Rathod PK (2016). In vitro adaptation of *Plasmodium falciparum* reveal variations in cultivability. *Malaria Journal.* Jan 22;15(1):33.

10. **Guler JL**, White J, Phillips MA, Rathod PK (2015). Atovaquone tolerance in *Plasmodium falciparum* parasites selected for high level resistance to a dihydroorotate dehydrogenase inhibitor. *Antimicrobial Agents and Chemotherapy.* Jan;59(1):686-9.

9. **Guler JL**, Freeman DL, Ahyong V, Patrapuvich R, White J, Gujjar R, Phillips MA, Derisi J, Rathod PK (2013). Asexual populations of the human malaria parasite, *Plasmodium falciparum*, use a two-step genomic strategy to acquire accurate, beneficial DNA amplifications. *PLoS Pathogens.* May;9(5):e1003375. (Guler and Freeman contributed equally)

PRIOR TO UVA APPOINTMENT

(NOTE: prior to 2007, my legal name was Jennifer L Stephens)

8. Narayanasamy K, Chery L, Basu A, Duraisingh MT, Escalante A, Fowble J, **Guler JL**, Herricks T, Kumar A, Majumder P, Maki J, Mascarenhas A, Rodrigues J, Roy B, Sen S, Shastri J, Smith J, Valecha N, White J, Rathod PK (2012). Malaria evolution in South Asia: knowledge for control and elimination. *Acta Tropica*. Mar;121(3):256-66.

7. Clayton AM, **Guler JL**, Lindsay M, Gluenz E, Gull K, Smith T, Jensen RE, Englund PT (2011). Depletion of mitochondrial acyl carrier protein in bloodstream-form *Trypanosoma brucei* causes a kinetoplast segregation defect. *Eukaryotic Cell*. Mar;10(3):286-92. (Clayton, Guler, and Lindsay contributed equally)

6. Autio KJ, **Guler JL**, Kastaniotis AJ, Englund PT, Hiltunen JK (2008). The 3-hydroxyacyl-ACP dehydratase of mitochondrial fatty acid synthesis in *Trypanosoma brucei. FEBS Letters.* 582(5):729-33.

5. **Guler JL**, Protivínská E, Smith TK, Lukeš J, Englund PT (2008). Mitochondrial fatty acid synthesis is required for normal mitochondrial function and morphology in *Trypanosoma brucei*. *Molecular Microbiology.* 67(5):1125-42.
4. Lee SH, **Stephens JL**, Englund PT (2007). A fatty acid synthesis mechanism specialized for parasitism. *Nature Reviews Microbiol*. 5:287-97
3. **Stephens JL**, Lee SH, Paul KS, Englund PT (2007). Mitochondrial fatty acid synthesis in *Trypanosoma brucei*. *J Biol Chem*. 282:4427-36.
2. Lee SH, **Stephens JL**, Paul, KS, and Englund PT (2006). Fatty acid synthesis by elongases in trypanosomes. *Cell*. 126:691-9.
1. Chen Y, DeWeese T, Dilley J, Zhang Y, Li Y, Ramesh N, Lee J, Pennathur-Das R, Radzyminski J, Wypych J, Brignetti D, Scott S, **Stephens J**, Karpf DB, Henderson DR, Yu DC. (2001). CV706, a prostate cancer-specific adenovirus variant, in combination with radiotherapy produces synergistic anti-tumor efficacy without increasing toxicity. *Cancer Res.* 61:5453-60.

PREPRINTS & IN PREPARTATION

Yu X, Qin F, Liu S, Brown N, Lu Q, Cai G, Guler JL, Xiao F. HapCNV: A Comprehensive Framework for CNV Detection in Low-input DNA Sequencing Data. ***BioRxiv*. Dec 2025 Doi: https://doi.org/10.1101/2024.12.19.629494 (submitted for peer review)**

PRESS

New Approach to DNA Research Could be Key to Solving Mysteries of Deadly Diseases. UVA Today. June 1, 2021 (Russel Bahorsky).

Malaria Research Wins UVA Biologist a Coveted NSF CAREER Award. UVA College of Arts & Sciences. April 19, 2021 (Russel Bahorsky)

Illustrating Infectious Disease in 3D. UVA Cavalier Daily, November 29, 2019 (Haley Stock)

Biologist Probes How Stubborn Malaria Bug Adapts to Evade Drug Treatments. UVA Today, June 21, 2017 (Fariss Samarrai)

PROFESSIONAL PRESENTATIONS

SINCE ASSOCIATE PROF APPOINTMENT AT UVA (2022)

2024
- **Invited Talk: Malaria Cross Collaborative, P01 monthly meeting, Notre Dame, Indiana (virtual)**
- **Short talk & Poster: Genomic Epidemiology of Malaria, Wellcome Genome Center, Hinxton, United Kingdom**
- **Invited Visit: Medical Parasitology Unit, Institute of Hygiene and Tropical Medicine, NOVA University in Lisbon, Portugal**
- **Invited Visit & Talk (*cancelled due to political turmoil*): Infection Disease Division, International Centre for Diarrheal Disease Research (ICDDR,B), Dhaka, Bangladesh**

2022
- Invited Talk: International Congress of Tropical Medicine and Malaria, Bangkok, Thailand

SINCE TENURE-TRACK APPOINTMENT AT UVA (2016)

2021
- Invited Talk: Pathology Department, UVA
- Invited Talk: Biochemistry and Molecular Biology Department, UVA
- Invited Talk: Fralin Life Sciences Institute, Virginia Tech
- Invited Talk: Eukaryotic Pathogens Innovation Center, Clemson University
- Invited Talk (*rescheduled from 2020*): Herman B Wells Center for Pediatric Research at the Indiana University School of Medicine

2020
- Invited Talk (*cancelled*): Gordon Research Conference on Host-Parasite Interactions
- Invited Talk (*cancelled*): Eukaryotic Pathogenesis Investigators Colloquia at Duke University
- Invited Talk (*cancelled*): Herman B Wells Center for Pediatric Research at the Indiana University School of Medicine

2019
- Invited Talk: Johns Hopkins Malaria Research Institute
- Invited Talk: Department of Cellular Biology, University of Georgia
- Invited Talk: PAraCon conference, Pennsylvania State University

2018
- Poster: Molecular Parasitology Meeting
- Invited Talk: Center for Infectious Disease Dynamics, Pennsylvania State University

2017
- Invited Talk: University of Virginia Global Infectious Disease Symposium
- Invited Poster: Commonwealth Conference on National Defense and Intelligence, Virginia
- Invited Talk: Armed Forces Health Surveillance Branch, Maryland

2016
- Invited Talk: Georgetown University
- Poster: Molecular Parasitology Meeting

SINCE RESEARCH-TRACK APPOINTMENT AT UVA (2013)

2015
- Poster: International Society for Extracellular Vesicles

2014
- Invited Talk: Medical Grand Rounds at the University of Virginia School of Medicine

PRIOR TO UVA APPOINTMENT

2012
- Talk: Molecular Parasitology Meeting
- Invited Talk: Division of Infectious Disease and International Health at the University of Virginia School of Medicine

2010
- Talk: Seattle Parasitology Meeting
- Talk: American Society of Tropical Medicine and Health Annual Meeting

2009
- Poster: Molecular Parasitology Meeting

2007
- Poster: Kinetoplastid Molecular and Cellular Biology Meeting

2006
- Opening Plenary Talk: Molecular Parasitology Meeting

2005
- Poster: American Society of Biochemistry and Molecular Biology Meeting
- Poster: Kinetoplastid Molecular and Cellular Biology Meeting

2004
- Poster: Molecular Parasitology Meeting
- Talk: Tri-state Trypanosome Meeting, Rockefeller University

AWARDS, OUTREACH & WORKSHOPS

AT UVA

Learning Technology Incubator Award from Learning Design and Technology, UVA (Aug 2023-Aug 2024, renewed until 2026)

- Selected to support project-based learning in mid-enrollment course

Program Creator/Director of *Infectious Disease in 3D* Undergraduate Internship. 2018-present

- Lead undergraduate students through the process of constructing virtual reality-based teaching tools focused on infectious disease education

Introductory Chemistry Course Redesign Workshop (Host: UVA Chem Dept, May 2022)

- Active learning approaches in large enrollment courses

Genetics & Race Workshop (Host: UVA Biology Dept, August 2022)

- Impact of biology teaching on propagating racial stereotypes

Mentoring Workshop (Host: UVA Biomedical Sciences Graduate Program, July 2022)

- Strategies for mentoring in a supportive and equitable manner

CAREER Awardee Workshop (Host: National Science Foundation, October 2022)

- Share research and outreach experiences with other awardees

UVA VPR Research Achievement Award. 2022.

- Selected due to receipt of NSF CAREER Award

Appointed Mentor, *Beckman Scholars Program*. 2021

- Selected due to demonstrated commitment to undergraduate research.

PRIOR TO UVA

Workshop Leader for Seattle *Expand Your Horizons*. 2010-2012.

- Design and lead a 4 hour workshop for 5th grade girls on science and technology

HHMI Teaching Apprenticeship at the University of Washington. 2010.

- Selected to design a quarter-long class with two other postdocs

Molecular Parasitology Meeting outstanding presentation awardee. 2006.

- Awarded to the top 30 talks at the meeting (>300 in attendance)

American Society of Biochemistry and Mol.Biology graduate student travel award. 2005.

- Provided funding for travel to San Diego

Student representative on the Cell. and Mol. Medicine advisory board. 2004-2005

- Elected by graduate student class to be the liaison between students and faculty board

Volunteer Scuba Diver/Educator at the National Aquarium in Baltimore. 2002-2007.

- Feed aquatic animals and present short public lectures on ocean-dwelling animals and marine conservation

National Science Foundation/ Ministry of Science and Education (Japan) Fellow 2002.

- Selected and funded by the NSF East Asia and Pacific Summer Institute for US graduate students to travel to perform research in Osaka, Japan

Harriman Pharmacology Award, University of California, Santa Barbara. 2000.

- Provided support for a semester of research in a pharmacology lab

TEACHING EXPERIENCE

COURSE INSTRUCTOR AT UVA

Our World of Infectious Disease (BIOL3090), Spr term 2018-19, 2021-25.

Enrollment: 40-55 undergraduate students in ’18-22, >90 students in ’23-25

Graduate Scientific Writing (BIOL8260), Spring term 2021, Fall term 2021 and 2022.
Enrollment: 7-14 graduate students

Human Biology Capstone Course/Independent Study (HBIO4950/4998), Co-instructor:
Fall term 2022, Spr and Fall terms 2023, 2024, 2025
Enrollment: 12-22 undergraduate students

COURSE LECTURES AT UVA

Public Health (Nursing School). 2019. Topic: *Protozoan Pathogens*

Unforgettable Lectures (INST3600). 2018. Topic: *Protozoan Pathogens*

Epidemics Forum (FORU1500). 2016. Topic: *Mosquito-borne diseases*

Human Biology Capstone Course (HBIO4810). 2014 and 2016. Topic: *Malaria control*

Graduate Microbial Pathogenesis (School of Medicine, MICR8401). 2013, 2014, 2016, 2021, 2022. Topic: *Antigenic Variation*

PRIOR TO UVA

Adjunct Instructor at North Seattle Community College. Summer term 2011. Teach Microbiology (BIOL260), a 5 credit combined laboratory and lecture course (30 students)

Teaching Apprentice in the Biology department, University of Washington. Spring quarter 2010. Design and co-teach global health lectures/activities for the senior seminar course *Hot Topics in Disease Prevention* (25 students)

Guest Lecturer for *Biology of Parasitism Course*, Johns Hopkins School of Public Health.2007. Topic of lecture: *Trypanosoma brucei and African Sleeping Sickness*

Teaching Assistant for *Molecules and Cells* metabolism section, Johns Hopkins School of Medicine. 2004. Hold discussion sessions, exam reviews, and journal clubs for medical students

Tutor for *Biochemistry and Molecular Biology*, Johns Hopkins School of Medicine. 2002-2003 Academic year. Design and lead discussion sections and exam reviews for first year graduate students

MENTORSHIP, TRAINING, & ADVISING

CURRENT STUDENTS/RESEARCH STAFF

AT UVA

Anush Aryal	PhD Candidate	Biology, 6th year
Noah Brown	PhD Candidate	Biology, 5th year
Kwesi Forson	PhD Candidate	Biology, 3rd year
Julia Zulawinska	PhD Candidate	BIMS, 2nd year
Isiah Kratzer	PhD Candidate	Biology, 2nd year
Suryan Athreya	Undergraduate	Biology
Farrah Zaqqout	Undergraduate	Chemistry
Marika Clark	Undergraduate	Human Biology, DMP
Michelle Warthan	Research Tech	Employed since 2016

PAST MENTEES

PHD STUDENTS:

Mukhethwa Munzhedzi, PhD (co-mentored)

Current Position: applying for postdoctoral positions

Mar 2018-Sept 2024. UVA Global ID Research Training fellow & University of Venda, South Africa

Shiwei Liu, PhD

Current Position: Postdoctoral researcher with Drs. Nho Kwangsik/Andrew Saykin at Indiana University (Genomics)

Jan 2018-Dec 2022: Biology graduate program (Global Infectious Disease iGrant recipient: 2021, GIDI-UP recipient: 2022)

Audrey Brown, Ph.D.

Current Position: Postdoctoral researcher with Dr. William Petri, Division of Infectious Disease, UVA (Parasitology)

Jan 2017-Jun 2022: Biology graduate program (Cell Biology Training Grant: 2018-19, ARCS Scholar: 2019-2020)

Maureen Carey, Ph.D

Current Position: Senior Computational Biologist, Pharma R&D, Tempus Labs

Feb 2015-Aug 2018: Biomedical Sciences Graduate Program (Microbiology, Immunology, and Cancer, Cell Biology Training Grant, 2015-17)

Postdoctoral mentor: Dr. William Petri, UVA (Parasitology & Systems Biology

Position 1: Assistant Professor at UVA Division of Infectious Disease; Co-Director of Data Science at the Trans-University Microbiome Initiative

Jennifer McDaniels, PhD

Current Position: Kidney Transplant Scientist, University of Maryland, Baltimore

Postdoctoral Mentor: Dr. Valeria Mas, University of Maryland (Transplant biology)

Feb 2014-May 2020: Biology Graduate Program (2021 Fleming Award for outstanding thesis, 2020 All-University Graduate Teaching Award, Infectious Disease and Biodefense Training Grant, 2015-2017)

Adam Huckaby, PhD

Current Position: Clinical Genomics Analyst, Invitae

Feb 2015-May 2020: Biology Graduate Program (Infectious Disease and Biodefense Training Grant, 2017, Society of Fellows Dissertation Award 2019-2020, Jefferson Research Award 2019)

MS STUDENTS:

Michal Stolarczyk

Current Position: Software Engineer, University of Virginia

Jun 2017-May 2018: Visiting Graduate Student BioLab Program (Director: Zygmunt Derewenda)

Julia Zulawinska

Current Position: BIMS graduate program, University of Virginia

Jul 2023-Aug 2024: Visiting Graduate Student BioLab Program (Director: Zygmunt Derewenda)

CLINICAL FELLOWS:

Aleksander Luniewski, M.D.

Current Position: Pathology Resident, University of Virginia

Jul 2022-Jul 2023: Visiting Graduate Student BioLab Program (Director: Zygmunt Derewenda)

Vincent Covelli, D.O.

Current Position: Infectious Disease Clinician at St. Mary High Desert Medical Group
Jul 2014-Jul 2017: Division of Infectious Disease Clinical Fellow

RESEARCH UNDERGRADUATES OF NOTE *(TOTAL: >30)*

NAME	MAJOR	CURRENT POSITION
Anna Long	Environmental Science	MPH, IMPAQ Research Analyst
Sabrina Carter	Biology	Law School
Julius Ha	Biology	MS in Public Administration (BYU)
Andrew Kubiak	Biomedical Engineering	Graduateschool-Biomedical Engineering
Julia Stellmann	Biology	Graduate school-Public Health
Jennifer Kniss	Biology	Peace Corps-Cameroon
Shaun Spisak	Biochemistry	PhD in Biochemistry (Johns Hopkins)
William Pavlis	Biology	MD-MPH (University of Miami)
Audrey Francis	Biology	MS in Biotechnology (Georgetown)
Ana Untarioiu	BME-Beckman Scholar	Radiology technician
Gillean Kelly	Biology	MD (Baylor Medical School)
Claire Granum	Statistics	Fannie Mae
Mareike Haaren	Human Biology, DMP	Peace Corps-Ethiopia, Medical School
Sabrina Lingeman	Global Health	MPH (University College of London)
Victoria Kelley	Public Pol./Global Health	Medical School
Nnenna Ene	Biology, DMP	Medical technician
Jane Kim	Biology	Medical School (accepted UVA)
Aida Doucoure	Human Biology, DMP	4+1 MS in Public Health, UVA
Caroline Webb	Human Biology, DMP	applying for graduate school
Charles Danis	Biology	applying for medical school

ADVISING (Non-Guler Lab)
Doctorate Committee Member:
Irish Amundson, Biology since 2022
Anam Tajammal, BIMS since 2023
Emma Glass, BME since 2023
Naomi Atkin, BIMS (graduated 2021)
Xioumu Zhang, Biology (graduated 2022)
Pramod Khadka, Biology (graduated 2023)
Phillip Tubergen, Biology (graduated 2023)

SERVICE

NATIONAL/INTERNATIONAL SERVICE

NIH NIAID Genetic Variation & Evolution permanent member (2024-2028)
NIH NIAID P01 study section reviewer (2023)
NIH NIAID Systems Biology U19 study section reviewer (2022)
NIH NIAID Genetic Variation & Evolution study section reviewer (2022)
Editorial Board of the ASM Journal *Microbiology Spectrum* (2021- present)
NIH F30/F31 Fellowship Review Panelist (2021)
Reviews Editor for *Frontiers in Cellular and Infection Microbiology*, Parasite & Host Section (2019-2021)
Reviewer for Burrough's Wellcome Fund Sir Henry Dale Fellowship (2019, 2020)

Invited Commentary for *Clinical Infectious Disease* (2018) and *International Journal of Parasitology* (2018-declined)
Guest Editor: *PLoS Genetics* (2018) and *PLoS Computational Biology* (2018)
Ad hoc Reviewer: *Journal of Infectious Disease* (2018), *PLoS Computational Biology* (2018), *Cell Reports* (2018), *Scientific Reports* (2018-2019), *Malaria Journal* (2019/2020/2021)
NIH Study Section Member for P01 Application (NIAID) (2017)- Project 1: Reviewer 3, Core A: Reviewer 2, Overall: Discussant 5

UNIVERSITY SERVICE

Human Biology major Co-director, Advisory board (2022-present)
Member of Nominating Committee, Arts & Sciences (2023-present)
Member of the Personnel Policy Committee, Arts & Sciences (2022)
Global Biothreats Training Grant Executive Committee (2022)
Global Infectious Disease Institute Symposium Planning Committee (2021-2022)
Invited NSF CAREER Grant Workshop Panelist (Host: UVA VPR, 2021)
BIMS Peach-Hungerford Award Selection Committee (2019, 2021)
Member of Global Infectious Disease Institute (2017-2022)
Group Leader for *Responsible Conduct of Research* BIMS 7100 (2015)
Research Mentor in BIMS Graduate Programs:
    Microbiology, Immunology and Cancer (since 2016)
Member of Training Grants:
    Infectious Disease and Biodefense (Director: William Petri)
    Cell and Molecular Biology (Director: Peter Stukenberg)
    Biomedical Data Sciences (Director: Jason Papin)
Invited Seminar Speakers for Division of Infectious Disease (SOM):
    Steve Meshnick (University of North Carolina, 2016)
    Bjorn Kafsack (Weil Cornell Medicine, 2017)
    Johanna Daily (Albert Einstein college of Medicine, 2018)

DEPARTMENTAL SERVICE

Biology Search Committee Chair (Micro & ID, Sept 2023- May 2024)
Biology Steering Committee (May 2021-May 2022)
Biology Undergraduate Curriculum Review Committee (Sept 2020-May 2022)
Biology Space Committee (Aug 2021-May 2022)
Biology-SDS Joint Hiring Committee (Sept 2019-May 2020)
Website Redesign Committee (Aug 2018- Dec 2019)
Undergraduate Committee (Sept 2018-May 2019)
Neuroscience Undergraduate Major Committee (Dec 2018-May 2019)
Invited Biology Seminar Speakers:
    Vasant Muralidharan (University of Georgia, 2016)
    Sabrina Absalon (Indiana University, 2019)
    Filipa Ferreira (University of Texas, 2020)
    Karine Le Roch (UC Riverside, 2021)
    Kris Forbes (UArk, 2022)
    Michael Ferdig (Notre Dame, 2023)
    Hung-goo Lee (Johns Hopkins, 2024)