

Paul L. Maurizio

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| CONTACT INFORMATION | NIH/NIAID, Vaccine Research Center Bethesda, Maryland 20892 | https://mauriziopaul.github.io paul.maurizio@nih.gov |
| EDUCATION | DOCTOR OF PHILOSOPHY (PhD) , Bioinformatics & Computational Biology 05/2018 • The University of North Carolina at Chapel Hill (UNC-CH); Department of Genetics MASTER OF SCIENCE (ScM) , Molecular Microbiology & Immunology 08/2011 • Johns Hopkins Bloomberg School of Public Health • Certificate in Vaccine Science & Policy, Department of International Health BACHELOR OF ARTS (BA) , Double Major: Biochemistry; Religion 05/2005 • Swarthmore College • Deans' Award | |
| PROFESSIONAL EMPLOYMENT | NATIONAL INSTITUTES OF HEALTH , Vaccine Research Center 06/2023–Present National Institute of Allergy & Infectious Diseases (NIAID) via Kelly Government Solutions Bioinformatics Scientist [C] , Cellular Immunology Section Federal Task Leader: Robert A. Seder, MD • Implement and optimize bioinformatics pipelines for multi-omics single-cell data including CITE-seq and ATAC-seq analysis; characterize cell types and states using statistical and mathematical modeling approaches • Lead end-to-end CITE-seq workflows for nonhuman primate and murine studies of chronic lung disease, cancer immunotherapy, and <i>M. tuberculosis</i> vaccination using Seurat, limma, and CellChat while troubleshooting and optimizing analysis tools • Develop cell-cell ligand-receptor analysis approaches, receiving Distinguished Achievement Award for analytical contributions to research and development pipeline • Integrate pulmonary spatial imaging data with single-cell transcriptomics profiles to map immune subpopulations and interactions in vaccination and infection studies, applying immunology and infectious disease expertise • Oversee computational analyses and data management across concurrent research objectives while establishing reproducible workflows using Python, R, SQL, and bash on HPC clusters and cloud platforms (Google Cloud, Terra) • Collaborate with multi-disciplinary experimental and computational teams, mentor junior researchers, and prepare publication-ready data visualizations and analyses • Demonstrate multitasking across diverse projects in a timely manner while maintaining meticulous attention to detail and demonstrating strong analytical, organizational, and interpersonal skills THE UNIVERSITY OF CHICAGO , Section of Genetic Medicine 08/2018–05/2023 Postdoctoral Fellow (06/2020–05/2023) Postdoctoral Scholar (08/2018–05/2020) Supervisor: Luis B. Barreiro, PhD • Modeled gene regulation in >130,000 single-cell RNA-seq profiles from peripheral blood immune cells using empirical Bayesian methods, variant calling, and machine learning approaches including gradient boosting and network analysis • Pioneered dynamic eQTL analysis for human macrophage tuberculosis infection response, developing statistical frameworks and incorporating genotype effects • Led integrative analysis combining scRNA-seq and ATAC-seq to examine social stress effects in non-human primates, and contributed to published research on stress effects on immunity • Secured over \$200K in competitive research funding, including NIH F32 fellowship and UChicago pilot grant, while developing scalable pipelines for HPC cluster workflows • Applied advanced statistical methods (Bayesian analysis, variance component modeling) and used public population genetic dataset repositories (GWAS, Ensembl, GEO) | |

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| | JOHNS HOPKINS UNIVERSITY , Dept. of Molecular Microbiology & Immunology Visiting Scholar , Bloomberg School of Public Health 07/2011–06/2012 Supervisor: Fidel Zavala, MD <ul style="list-style-type: none"> Conducted preclinical vaccine research, including molecular parasitology, transgenic model development, and adjuvant evaluations, resulting in co-authored publication that advanced translational and clinical efforts |
| ADDITIONAL PROFESSIONAL EXPERIENCE | Bioinformatics Consultant , Teiko Bio Inc., Salt Lake City, UT (remote) 09/2021–10/2021 <ul style="list-style-type: none"> Analyzed human mass cytometry data (CyTOF) for clinical cancer research clients Staff Research Associate , University of California, Los Angeles, CA 10/2007–07/2009 Department of Microbiology, Immunology & Molecular Genetics Supervisor: M. Carrie Miceli, PhD <ul style="list-style-type: none"> Conducted preclinical testing of muscular dystrophy therapeutics in mouse models and managed shared flow cytometry instrument for multiple research groups Research Specialist , University of Pennsylvania, Philadelphia, PA 10/2005–09/2007 Department of Pathology & Laboratory Medicine Supervisor: Yongwon Choi, PhD <ul style="list-style-type: none"> Characterized TRAF6 ubiquitination in innate immune signaling using biochemical and immunological approaches, contributing to published research on NFκB activation |
| TECHNICAL SKILLS & TRAINING | Programming & Computing: R, RStudio, Python, Pandas, NumPy, SQL, Matlab, Mathematica, Seurat, Homebrew, Docker, Stan, bash, Unix, git, GitHub, STATA, MCMCglmm, EMMREML, matrixEQTL, coloc, mashr, plotly, R Shiny, R Markdown, Azure; data management Statistical & Machine Learning: <i>k</i> -means clustering, dimensionality reduction, non-negative matrix factorization, imputation, logistic regression, generalized linear mixed modeling, Gibbs sampling, Bayesian analysis, variance component analysis NGS, Genomics & Epigenetics Analysis: RNA-seq, ATAC-seq, ChIP-seq, scRNA-seq, CITE-seq; 10X Genomics analysis workflows; gene expression and spatial modeling skills Machine Learning & AI (Recently Enhanced): Advanced artificial intelligence applications, applied machine learning frameworks; TensorFlow, Scikit-learn, Keras, gradient boosting, artificial neural networks for imaging and classification Relevant Graduate Coursework: Bayesian Statistics, Databases, Mathematical Modeling, Sequence Analysis, Infectious Disease Dynamics, Introduction to Statistical Modeling, Statistical Methods in Public Health, Structural Bioinformatics, Topics in Computer Science: Computational Genetics, Topics in Population Genetics |
| GRADUATE RESEARCH | UNC-CHAPEL HILL 05/2013–07/2018 <ul style="list-style-type: none"> Advisors: Mark T. Heise, PhD & William Valdar, PhD Committee: Terrence S. Furey, PhD (chair); Fernando Pardo-Manuel de Villena, PhD; Ralph S. Baric, PhD; Jeremy E. Purvis, PhD UNC-CHAPEL HILL (Rotations) 07/2012–05/2013 <ul style="list-style-type: none"> Advisors: David M. Margolis, MD; Aravinda M. de Silva, PhD; Kristina De Paris, PhD JOHNS HOPKINS UNIVERSITY 08/2009–08/2011 <ul style="list-style-type: none"> Advisor: Douglas E. Norris, PhD |
| GRANTS, FELLOWSHIPS & SCHOLARSHIPS | Awardee, NIH/NIAID LRP , Loan Repayment Program 2022–2023 <ul style="list-style-type: none"> Research in Emerging Areas Critical to Human Health (L70) PI, NIH/NIA F32 , Ruth L. Kirschstein National Research Service Award 2020–2023 <ul style="list-style-type: none"> Sponsors: Luis B. Barreiro, PhD; Matthew Stephens, PhD (Statistics) Title: “Quantifying gene expression and network regulation in single cells to reveal the consequences of stress on the immune response” (#F32AG064883) |

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| | PI, UChicago Pilot Grant , Department of Medicine 2019–2023 <ul style="list-style-type: none"> • Advisors: Luis B. Barreiro, PhD; Patrick Wilson, PhD (Rheumatology) • Title: “Modeling the effects of social stress on cell-to-cell variation in the immune response to influenza vaccination” Fellow, NIH T32 Fellowship , Virology Training Grant, UNC-CH 2015–2016 Scholar, Master’s Tuition Scholarship , JHU 2010–2011 Fellow, Joshua Lippincott Fellowship , Swarthmore College 2009–2010 Fellow, NSF Summer REU in Prokaryotic Biology , University of Georgia <ul style="list-style-type: none"> • Advisor: Juergen Wiegel, PhD, Department of Microbiology Fellow, NASA Astrobiology Summer Program , Penn State University <ul style="list-style-type: none"> • Advisor: Hiroshi Ohmoto, PhD, Department of Geosciences |
| HONORS & AWARDS | Award, Distinguished Achievement , Kelly Government Solutions, Rockville, MD 2024 Award , Biological Sciences Division, UChicago 2022 Associate , Intersections Science Fellows Symposium (ISFS) 2021 Award, Travel , 2 nd Annual Symposium, National Science Policy Network, NYC, NY 2018 Award, Notable Poster , 1 st Annual Research Computing Symposium, UNC-CH 2014 Award, Student Membership , Tropical Medicine Dinner Club of Baltimore 2010 & 2011 Award, Blue Ribbon Poster , Johns Hopkins Global Health Day, JHU 2011 Award, Global Health Field Research , JHU Center for Global Health 2010 Award, Simpson Student Fund , Tropical Medicine Dinner Club of Baltimore 2010 |
| PEER-REVIEWED PUBLICATIONS | <p>Parrett JM, Lukasiwicz A, Chmielewski S, Szubert-Kruszynska A, Maurizio PL, Grieshop K and Radwan J. 2023. A sexually-selected male weapon characterised by strong additive genetic variance and no evidence for sexually antagonistic polyphenic maintenance. <i>Evolution</i>. 77(6):1289-1302. doi:10.1093/evolut/qpad039. PMID: 36848265.</p> <p>Grieshop K, Maurizio PL, Arnqvist G and Berger D. 2021. Selection in males purges the mutation load on female fitness. <i>Evol Letters</i>. 5(4):328-343. doi:10.1002/evl3.239. PMID: 34367659.</p> <p>Sanz J, Maurizio PL, Snyder-Mackler N, Simons ND, Voyles T, Kohn J, Michopoulos V, Wilson M, Tung J and Barreiro LB. 2020. Social history and exposure to pathogen signals modulate social status effects on gene regulation in rhesus macaques. <i>Proc Natl Acad Sci USA</i>. 117(38):23317-22. doi:10.1073/pnas.1820846116. PMID:31611381.</p> <p>Maurizio PL[†], Fuseini H, Tegha G, Hosseinipour M and De Paris K. 2019. Signatures of divergent anti-malarial treatment responses in peripheral blood from adults and young children in Malawi. <i>Malaria J</i>. 18(1):205. doi:10.1186/s12936-019-2842-7. PMID:31234875. († = corresp. author)</p> <p>Shorter JR*, Maurizio PL*, Bell TA, Shaw GD, Miller DR, Gooch TJ, Spence JS, McMillan L, Valdar W and Pardo-Manuel de Villena F. 2019. A diallel of the mouse Collaborative Cross founders reveals strong strain-specific maternal effects on litter size. <i>G3: Genes, Genomes, Genetics</i>. 9(5):1613-1622. doi:10.1534/g3.118.200847. PMID:30877080. (* = equal contribution)</p> <p>Maurizio PL, Ferris MT, Keele GR, Miller DR, Shaw GD, Whitmore AC, West A, Morrison CR, Noll KE, Plante KS, Cockrell AS, Threadgill DW, Pardo-Manuel de Villena F, Baric RS, Heise MT and Valdar W. 2018. Bayesian diallel analysis reveals <i>Mx1</i>-dependent and <i>Mx1</i>-independent effects on response to influenza A virus in mice. <i>G3: Genes, Genomes, Genetics</i>. 8(2): 427-445. doi:10.1534/g3.117.300438. PMID:29187420.</p> <p>Turner SD, Maurizio PL, Valdar W, Yandell BS and Simon PW. Dissecting the genetic architecture of shoot growth in carrot (<i>Daucus carota</i> L.) using a diallel mating design. 2018. <i>G3: Genes, Genomes, Genetics</i>. 8(2): 411-426. doi:10.1534/g3.117.300235. PMID:29187419.</p> |

Espinosa DA, Yadava A, Angov E, **Maurizio PL**, Ockenhouse CF and Zavala F. **2013**. Development of a chimeric *Plasmodium berghei* strain expressing the repeat region of the *P. vivax* circumsporozoite protein for in vivo evaluation of vaccine efficacy. *Infection and Immunity*. 81(8):2882-2887. doi:10.1128/IAI.00461-13. PMID:23716612.

Walsh MC, Kim GK, **Maurizio PL**, Molnar EE and Choi Y. **2008**. TRAF6 auto-ubiquitination-independent activation of the NF κ B and MAPK pathways in response to IL-1 and RANKL. *PLoS One*. 3(12):e4064. doi:10.1371/journal.pone.0004064. PMID:19112497.

Maurizio PL, Dahlvang JD, Bucsán AN, Lehman CC, Robertson M, Roederer M, Darrah PA and Seder RA. **2024**. Single cell analysis reveals gene regulatory impacts of IV BCG on blood and airway immune cell populations before and after Mtb challenge in macaques. NIH/FDA Immunology Interest Group Annual Retreat, Washington, DC, Jan 29th–30th. (*abstract*)

Maurizio PL, Aguirre-Gamboa R, Sanz J, Giraud-Gatineau A, Randolph HE, Von Platen C, Loulergue P, Launay O, Yotova V, Dumaine A, Brosch R, Talleux L* and Barreiro LB*. **2022**. Dynamic genetic control of the gene expression response to *Mycobacterium tuberculosis* infection in human macrophages. *Biology of Genomes*, May 10th–14th. (*abstract*; * co-senior)

Campbell CR, **Maurizio PL**, Simons ND, Batista J, Voyles T, Cobb M, Dumaine A, Michopoulos V, Barreiro L and Tung J. **2021**. Social behavioral control of cell-to-cell gene expression variance in rhesus macaque immune cells. *Biology of Genomes*, May 11th–14th. (*abstract*)

Hampton BK, Jensen KL, Whitmore AC, Linnertz CL, **Maurizio P**, Miller DR, Morrison CR, Noll KE, Plante KS, Shaw GD, West A, Baric RS, Pardo-Manuel de Villena F, Heise MT and Ferris MT. **2021**. Genetic regulation of homeostatic immune architecture in the lungs of Collaborative Cross mice. bioRxiv 2021.04.09.439180. doi:10.1101/2021.04.09.439180. (*preprint* 2021-04-10)

Simons ND, **Maurizio PL**, Batista J, Michopoulos V, Barreiro LB and Tung J. **2020**. Parallel gene regulatory signatures of social stress and aging in rhesus macaques. 289th Annual Meeting of the American Association of Physical Anthropologists, April 15th–18th. (*abstract*)

Keele GR, **Maurizio PL**, Oreper D and Valdar W. **2018**. Bayesian decision theoretic design of two-founder experimental crosses given diallel data. bioRxiv 489682. doi:10.1101/489682. (*working paper* 2018-10-07)

Maurizio PL. **2018**. Modeling the Host Genetic Determinants of Influenza Virus Pathogenesis in Mice. Doctor of Philosophy (PhD) Dissertation. University of North Carolina at Chapel Hill. 270 pp. (*dissertation*)

Maurizio PL and Ferris MT. **2017**. “The Collaborative Cross Resource for Systems Genetics Research of Infectious Diseases.” *Methods in Molecular Biology: Systems Genetics - Methods and Protocols*. Springer/Humana Press: New York, NY. Editors: Klaus Schughart, Robert Williams. doi:10.1007/978-1-4939-6427-7_28. PMID:27933545. (*chapter*)

Maurizio PL. **2011**. Detection and vertical transmission of *Culex* flavivirus in *Culex quinquefasciatus* (Diptera: Culicidae) mosquitoes from Zambia, Africa. Master of Science (ScM) thesis. Johns Hopkins University. 127 pp. (*thesis*)

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| CONFERENCE ABSTRACTS & PRESENTATIONS (SELECTED) | Abstract , Tuberculosis: The Host-Pathogen Interface, Keystone, CO | 2024 |
| | “Single cell analysis of blood and airway cells uncovers IV BCG specific gene regulatory impacts on immune cell populations before and after <i>Mtb</i> challenge” | |
| | Poster , Biology of Genomes, Cold Spring Harbor, NY | 2022 |
| | “Dynamic genetic control of the gene expression response to <i>Mycobacterium tuberculosis</i> infection in human macrophages” | |
| | Flash Talk , Intersections Science Fellows Symposium (virtual) | 2021 |
| | “Uncovering cell-type-specific effects of social stress on the immune response in macaques” | |
| | Talk , Division of Aging Biology New Investigators Forum, NIH/NIA | 2021 |
| | “Uncovering cell-type-specific effects of social stress on the immune response” | |
| | Talk (*) , 15 th Complex Trait Community Meeting: Memphis, TN | 2017 |
| | “Diallel analysis reveals <i>Mx1</i> -dependent and independent effects driving influenza virus severity” | |
| CAMPUS PRESENTATIONS (SELECTED) | Poster , Gordon Research Conference: Lucca (Barga), Italy | 2015 |
| | Quantitative Genetics & Genomics; “Characterization of parent-of-origin effects on host response to influenza A virus in reciprocal cross mice.” | |
| | Oral , Southeastern Regional Virology Conference: Atlanta, GA. | 2014 |
| | “Influenza infections in a diallel cross of mice reveal parent-of-origin effects influencing viral pathogenesis” | |
| | Poster (*) , Entomological Society of America Eastern Branch | 2011 |
| | 82 nd Annual Meeting: Harrisburg, PA. (*)=Presentation Award | |
| TEACHING & MENTORSHIP | Panelist , Virtual Alumni Panel, University Career Services, UNC-CH | 2024 |
| | Panelist , Sharing of Diverse Perspectives: Postdoc Edition, UChicago | 2021 |
| | • Graduate Recruitment Initiative Team | |
| | Presenter , Committee on Immunology Work-in-Progress, UChicago | 2021 |
| | Panelist , Postdoctoral Association Seminar on Postdoc Fellowships, UChicago | 2021 |
| | Presenter , Department of Human Genetics Work-in-Progress, UChicago | 2019 |
| | Panelist , Carolina Grad Student Firsts, UNC-CH and Duke University | 2018 |
| | Mentor , Hopkins Connect Spring Virtual Mentorship Summit, JHU | 2025 |
| | Mentor , Future Leaders Mentoring Fellowship, American Society for Microbiology | 2023–2024 |
| | Champion Mentor , FLI Network | 2018–2023 |
| PROFESSIONAL DEVELOPMENT | • Mentored two undergraduate STEM majors at UChicago during monthly meetings | |
| | • Advised on research mentor searches and successful applications to doctoral programs | |
| | Guest Speaker , Skype-A-Scientist (virtual) | 2020–2021 |
| | • Ericson Elementary, 5 th grade, San Diego, CA | |
| | • The Liberi School, 7 th grade, Hudson, NY | |
| | • Leitch Elementary, 2 nd grade, Fremont, CA | |
| | Coding Instructor , Introduction to R, How to Learn to Code, UNC-CH | 2016 |
| | • Course overview: https://bit.ly/IntroToR-HTLTTC | |
| | Coding Helper , Software Carpentry Workshop (Git, SQL), UNC-CH | 2016 |
| | Teaching Assistant , Foundations in Population Genomics, UNC-CH | 2014 |
| | Teaching Assistant , Global TEFL Network, Zhejiang University, Hangzhou, China | 2007 |
| | Teaching Assistant , Biological Chemistry Laboratory, Swarthmore College | |
| | Student , Foundation for Advanced Education in the Sciences (FAES), Bethesda, MD | |
| | • Applied Machine Learning (<i>applied to classification in genomics workflows</i>) | 2024 |
| | • Advanced Applications of Artificial Intelligence (<i>integrating into longitudinal transcriptomics analysis</i>) | 2024 |
| | Selected Participant , Leadership U for Humanity (LUFH), Korn Ferry | 2023 |
| | Selected Participant , Grant Writing Coaching Groups, The Leadership Alliance | 2021–2022 |

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| | Selected Participant , University of Pittsburgh Study | 2020–2022 |
| | • Building up a diverse pipeline for the biomedical research workforce | |
| | Participant , Academic Job Market Working Groups, UChicagoGRAD | 2021 |
| | Selected Participant , <i>GENETICS</i> Peer Review Training Program | 2018–2020 |
| | Attendee , The Allied Genetics Conference 2020 (TAGC), April 22 nd -25 th (virtual) | 2020 |
| | Attendee , The Genetics of Human Disease, Cell Press Symposium, Chicago, IL | 2019 |
| | Participant , Scientific Writing from the Reader's Perspective Workshop, UNC-CH | 2017 |
| | Participant , Rigor & Reproducibility Workshop, UNC-CH | 2016 |
| | Student , Systems Genetics Course, The Jackson Lab, Bar Harbor, ME | 2014 |
| | Participant , Next Generation Sequencing Workshop, UNC-CH | 2014 |
| PEER REVIEW | Review Editor , Systems Immunology, <i>Frontiers in Immunology</i> | 2023–Present |
| | Reviewer , <i>PLoS Pathogens</i> | 2023–Present |
| | Reviewer , <i>Heredity</i> (Genetics Society) | 2022–Present |
| | Reviewer , <i>Microbiology Spectrum</i> (American Society for Microbiology) | 2021–Present |
| | Reviewer , <i>Journal of Virology</i> (American Society for Microbiology) | 2020–Present |
| | Reviewer , <i>Database</i> (Oxford University Press) | 2019–Present |
| | Reviewer , <i>Genetics</i> (Genetics Society of America) | 2018–Present |
| | Reviewer , Travel Awards, UChicago BSD Career Advancement for Postdocs | 2021 |
| SERVICE & OUTREACH | Volunteer , UChicago-DuSable Museum of African American History Collaboration | 2021–2023 |
| | Co-founder , Pan-Asian Resource Group, UChicago | 2021–2023 |
| | Co-founder , Pan Asian Coalition, Biological Sciences Division, UChicago | 2021–2023 |
| | Member , Postdoctoral Association (PDA) Steering Committee, UChicago | 2020–2023 |
| | • Chair , Policy Committee | |
| | • Co-organizer , Fellowship Writing Accountability Group | |
| | • Co-organizer , Postdoc Support Survey | |
| | Invited Moderator , Office of Multicultural Student Affairs | 2022 |
| | Presentation Judge , Chicago EYES on Cancer Research Symposium | 2021 |
| | Board of Directors , Universities Allied for Essential Medicines, 501(c)(3) | 2015–2019 |
| | Session Chair , Virology Colloquium, UNC-CH, Chapel Hill, NC | 2015 |
| | Session Chair , Evolution 2014 Conference, Raleigh, NC | 2014 |
| | Peer Mentor , 1 st -Year Group, Biol. & Biomed. Sci. Program, UNC-CH | 2013 |
| | Guest Blogger , 12 th Annual World Vaccine Congress, National Harbor, MD | 2012 |
| | HIV Tester & Counselor , Institute for Human Virology, Baltimore, MD | 2010–2012 |
| | Tutor , Health Professions Recruitment and Exposure Program, JHU | 2010 |