

CURRICULUM VITAE

JANUARY 2024

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Education

DEGREES

- 2022- PhD Linguistics, University of Hawai'i at Mānoa
2012-2013 MSt General Linguistics and Comparative Philology, University of Oxford (*distinction*)
 Funded by the Daniel M. Sachs Class of 1960 Graduating Scholarship
2008-2012 BA Chemistry, Princeton University (*summa cum laude*)

NON-DEGREE STUDIES

- 2017-2019 Coursework towards PhD Medical Engineering and Medical Physics, MIT and Harvard Medical School
2021 Coursework at the American Indian Language Development Institute, University of Arizona
 Funded by a Virginia Wing Grant
2018 Intermediate Urdu at The American Institute of Indian Studies (Lucknow, India)
 Funded by a US Department of State Critical Language Scholarship
2014 Intermediate French at the Middlebury Language Schools (Middlebury, VT)
 Funded by a Kathryn Davis Fellowship for Peace
2010 Intermediate Mandarin at Beijing Normal University (Beijing, China)
2009 Intermediate German at the Goethe Institute (Munich, Germany)

Professional Experience

LINGUISTICS

- 2023 Language Documentation Training Center: Co-Director
2022 Endangered Language Catalog: Graduate Research Assistant
2018-2021 Linguists Without Borders: Founder and Director
2013 Center for Advanced Study of Language: Intern

TECHNOLOGY

- 2015 National Public Radio: NPR Labs Research and Development Intern
2015-2016 Microsoft: Software Engineer
2016-2017 ThoughtWorks: Web Developer

INTERNATIONAL DEVELOPMENT

- 2018-2020 MIT D-Lab: Instructor, Tour Guide
2016-2017 The People's Archive of Rural India: Journalist

BROADCASTING

2019-2022 Classical WCRB: Weekend Host
2022- Hawai'i Public Radio: Evening Host

Publications

PEER-REVIEWED PUBLICATIONS

2019 Gaiha, G., Rossin, E., Urbach, J., Landeros, C., Collins, D.R., Nwonu, C., Muzhingi, I., Anahtar, M.N., **Waring, O.M.**, Piechocka-Trocha, A., Waring, M., Worrall, D.P., Newman, R.M., Power, K.A., Allen, T.M., Chodosh, J., Walker, B.D. *Structural Topology Defines Protective CD8+ T cell Epitopes in the HIV Proteome..* SCIENCE. 364 (6439): 480-484. <https://www.science.org/doi/10.1126/science.aav5095>.

REFEREED BOOK CHAPTERS

2020 **Waring, O.M.**, Majumder, M.S. "Introduction to Digital Phenotyping for Global Health." In Celi, L., Majumder, M., Ordóñez, P., Osorio, J., Paik, K., Somai, M. (eds). *Leveraging Data Science for Global Health*, 251-261. Springer. https://doi.org/10.1007/978-3-030-47994-7_15.

REFEREED CONFERENCE PROCEEDINGS

Forthcoming **Waring, O.M.**, Holton, G. *A Finite State Model for Morphological Analysis of Eyak*. 7th ComputEL Workshop.

Awards & fellowships

2022 University of Hawai'i at Mānoa Graduate Division Achievement Scholarship
2021 Virginia Wing Professional Development Grant
2020 Kathryn Davis Fellowship for Peace: Arabic (declined)
2018 MIT IDEAS Global Challenge: \$10K Winner (Second Prize)
2018 US Department of State Critical Language Scholarship: Urdu
2018 Hertz Fellowship Finalist
2018 Schwarzman Fellowship Finalist
2017 MIT Presidential Fellowship
2016 American India Foundation William J. Clinton Fellowship for Service in India
2014 Kathryn Davis Fellowship for Peace: French
2013 ITO Foundation for International Education Exchange Scholarship (declined)
2013 Rhodes Scholar Finalist
2013 Grace Hopper Celebration of Women in Computing NSF Scholarship (declined)
2012 Friends of Todai Summer Research Grant
2012 Sigma Xi Book Award for Outstanding Research
2012 Daniel M. Sachs Class of 1960 Graduating Scholarship
2011 Rhodes Scholar Finalist
2011 DAAD (German Academic Exchange Service) Research Scholarship

Research grants

2023 Bilinski Summer Research Grant to support language documentation work on Eyak (Cordova, Alaska)

Invited talks

- 2023 “Introduction to Morphology and Syntax for Language Documentation”: Endangered Languages Program Webinar Series
- 2023 “Introduction to Audio and Video Recording for Language Documentation”: Endangered Languages Program Webinar Series
- 2019 “SurgiBox: An Operating Room in a Backpack”: MIT Healthcare and Data Science Conference (Thimphu, Bhutan)
- 2019 “Sustainable, Community-Driven Design for Global Poverty Alleviation”: China Thinks Big Conference, Harvard University (Cambridge, MA)
- 2018 “An Introduction to Digital Phenotyping for Global Health”: KKKU mHealth Datathon (Khon Kaen, Thailand)

Conference talks

- 2023 “Auto-Transcription of Endangered Sign Languages Using Convolutional Neural Networks”: 8th International Conference on Language Documentation and Conversation 8 (Honolulu, Hawai‘i)
- 2023 “Linguistics Education as a Supplement to Second Language Learning: A Guided Introduction to Language Construction”: Hawai‘i Association of Language Teachers Spring Conference (Honolulu, Hawai‘i)
- 2016 “Quantum Computing Demystified”: Women Who Code CONNECT Conference (Seattle, WA)

Conference organization

- 2023 Member of the student steering committee for the 26th International Symposium on Malay/Indonesian Linguistics
- 2023 Member of the student steering committee for the 9th International Symposium on the Languages of Java
- 2022-2023 Member of the student steering committee for the 8th International Conference on Language Documentation and Conversation 8 (Honolulu, Hawai‘i)

Language proficiency

German: Conversational

Hindi/Urdu: Conversational. U.S. Department of State Assessment: Advanced Low (B2)

Italian: Conversational. **1st Prize**, 2006 National Italian Competition

Mandarin Chinese: Conversational. **1st Prize**, 2010 National Chinese Bridge Speech/Talent Contest

French: Basic proficiency

Hawaiian: Basic proficiency

Ancient (Attic) Greek, Arabic, Indonesian, Japanese, Spanish, Tibetan: One semester of university-level studies

Technical skills

Programming languages: Java; Python; C; MATLAB; HTML; CSS; JavaScript; Processing; Julia; SQL; R.

Linguistics software: ELAN, FLEEx, Praat, Audacity.

Radio: Federal Communications Commission-approved amateur radio technician (Call sign: KC2SGT).

Teaching

UNIVERSITY OF HAWAII AT MANOA, USA

- 2024 General Linguistics, UHM Department of Linguistics (undergraduate level): Instructor of Record
- 2023 Introduction to the Study of Language, UHM Department of Linguistics (undergraduate level): Assistant Coordinator

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, USA

- 2019-20 Engineering for International Development, MIT D-Lab (undergraduate level): Instructor, Trip Leader (Soroti, Uganda)
- 2018-19 Introduction to Computer Science, MIT Beautiful Patterns (high school level): Lead Instructor (Guadalajara, Mexico)
- 2018 Research Methods in Global Health and Development, MIT Department of Urban Studies and Planning (undergraduate level): Teaching Assistant

UNIVERSITY OF OXFORD, UK

- 2014 Artificial Intelligence, Oxford Department of Computer Science (graduate level): Teaching Assistant
Shortlisted for the Oxford University Student Union Student-Led Teaching Award

THE WINSOR SCHOOL, BOSTON, MA

- 2022 Introduction to Computer Science (high school level): Lead Teacher
- 2020-2022 Honors General Chemistry (high school level): Teacher
- 2020-2022 College Preparatory General Chemistry (high school level): Lead Teacher

WORKSHOPS & SHORT COURSES

- 2024 “Community Radio and Podcasting as a Vehicle for Language Revitalization.” Workshop at CoLang, Institute for Collaborative Language Research, Arizona State University and Salt River Pima-Maricopa Indian Community.
- 2018 Introduction to Linguistics: Weekend workshop at the MIT SPARK program

Community language work / Language documentation experience

RESEARCH PROJECTS

- 2023- Eyak (Na-Dene): Alaska
- 2022 Palauan (Malayo-Polynesian): Language Documentation Training Center at UHM
- 2013 Baima (Tibeto-Burman): Sichuan, China

FIELD METHODS COURSES

- 2023-2024 Palauan (Malayo-Polynesian): Field methods course at UHM
- 2023 Lingala (Bantu): Field methods course at the Linguistics Society of America Summer Institute

1 International development work

- 2019-2020 Led an annual two-week workshop on engineering and entrepreneurship for youth: Soroti, Uganda
- 2018 Worked on a water, sanitation and hygiene (WASH) project with the MIT D-Lab and Population Services International: Awasa, Ethiopia
- 2018 Advised a women's coffee farming collective: Estelí, Nicaragua
- 2018 Designed an app for non-communicable disease management with the Harvard T.H. Chan School of Public Health, the Johns Hopkins Bloomberg School of Public Health, and the International Rescue Committee
- 2016-2017 Traveled throughout rural India as a journalist, reporting on humanitarian issues: Mumbai, India

Service

DEPARTMENTAL LEADERSHIP

- 2023-2024 Linguistics Society of Mānoa: Vice President and Graduate Student Organization Representative

DEPARTMENTAL READING GROUPS

- 2023-2024 Initiative for Decolonization, Equity, and Anti-Racism in Linguistics: Founding Member
- 2024- Language Documentation for Pedagogy and Revitalization: Founding member

OTHER SERVICE EXPERIENCES

- Boston Samaritans: Crisis Hotline Operator
- Physicians for Human Rights: Trained to assist physicians in conducting evaluations of asylum seekers