

# MUHAMMAD REHAN



## EDUCATION

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- 2023– Graduate Student, Program in Indo-European Studies, UCLA
- 2023–2024 M.A. in Indo-European Studies, UCLA
- 2022–2023 Post-Baccalaureate Certificate in Classics (with Distinction), UCLA
- 2018–2022 B.A. in Classics (Hons.) and German Studies (Hons.), Grinnell College

## PUBLICATIONS

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- In Prep.* “From Points to Polygons: Modeling Spatial Autocorrelation.”  
(with David Goldstein)
- In Prep.* “Young Infants’ Discrimination of Phonetic Contrasts Predicts their Typological Frequency.”  
(with Megha Sundara)
- Submitted* “Supervised Text Classification in Historical Linguistics: The Case of Christian Latin.”  
(with Valentina Lunardi and David Goldstein)
- Submitted* “E-lorgesailie: An Agent-Based Simulation Model of Acheulean Lithic Raw Material Procurement and Handaxe Deposition Patterns.”  
(with Grant McCall)
- Forth.* “Re-evaluating the Word-Medial Operation of the Saussure-Hirt Effect in Greek.”  
*Proceedings of the 4<sup>th</sup> International Conference on Ancient Greek Linguistics.*
- 2026 “Gk. μοιχός ‘adulterer’: Re-mixing a Piss-Poor Etymology”  
*Proceedings of the 35<sup>th</sup> Annual UCLA Indo-European Conference* Vol. 35.147–163.
- 2023 “Mind your Language, Mister! A Case Study in Aristophanic Humor.”  
*Animus* Vol. 3.1 (Winter).36–51.
- 2023 “Between Need, Want, Material and Innate Beauty: Tracing Shades of Erōs.”  
*Corvus* Vol. 13 (Spring).27–35.
- 2023 “Gendered Language in Aristophanes’ *Birds*.”  
*Persephone* Vol. 8.1 (Spring).12–29.
- 2021 “The Estuarine Ecological Knowledge Network: Future Prospects.”  
(with Grant S. McCall, Russell Greaves, Brian Hitchcock, Brian Ostahowski, and Sherman W. Horn III.)  
*Marine Technology and Science Journal* 55 (3).122–123.

## PRESENTATIONS & POSTERS

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- 2026 “From points to polygons: Modeling spatial autocorrelation.”  
with David Goldstein  
*qc-lete : Quantitative Cross-Linguistic Explorations of Space, Time, and Evolution*, Jun. 10.

- 2026 **“Modeling the spread of alphabets in ancient Italy using spatiotemporal Hawkes processes.”**  
with Tom Francis  
*DataX, UCLA*, May 19.
- 2026 **“Predicting phonological typology and rates of phonological change.”**  
*DataX, UCLA*, April 20.
- 2026 **“The phonetic value of Avestan <â>”**  
*American Society for Premodern Asia Annual Meeting*, Apr. 27.
- 2026 **“From points to polygons: Modeling spatial autocorrelation.”**  
with David Goldstein  
*Special workshop on “The geography of linguistic evolution”, EVOLANG XVI*, Apr. 7.
- 2026 **“Lexical stress and syllable weight in Hindi-Urdu pop text-setting.”**  
with Jahnavi Narkar and Dhanya Charan  
*Linguistics Society of America Annual Meeting 2026*, Jan. 9.
- 2025 **“Investigating lexical stress in Hindi-Urdu pop music.”**  
with Jahnavi Narkar and Dhanya Charan  
*Sixth Joint Meeting of Acoustical Society of America and Acoustical Society of Japan*, Dec. 5.
- 2025 **“The development of word-final stops in Hittite.”**  
*AnatoLinks, University of Oxford*, Dec. 4.
- 2025 **“Synchronic phonetic variation drives diachronic sound change: Further evidence from pre-nasal raising in Young Avestan.”**  
*7<sup>th</sup> Edinburgh Symposium on Historical Phonology*, Dec. 2.
- 2025 **“Converging computational evidence against an East-Germanic clade.”**  
with Sean Liu, and Marc Canby  
*WeCIEC 36: Annual UCLA Indo-European Conference*, Oct. 28.
- 2025 **“Issues of lexical cognacy encoding in IE-CoR.”**  
with Tom Francis, Klaus Kim, and Laura McLean  
*27<sup>th</sup> International Conference on Historical Linguistics*, Aug. 18.
- 2025 **“Population size has a weak effect on phoneme inventory size.”**  
Poster presented at the *Linguistic Society of America Summer Institute, University of Oregon*, Jul. 10.
- 2025 **“Re-evaluating the word-medial operation of the Saussure-Hirt effect in Greek.”**  
*11<sup>th</sup> International Colloquium on Ancient Greek Linguistics*, June 26.
- 2025 **“Word-final voicing in Hittite?”**  
*Southern California Annual Meeting on Phonology 2025*, Apr. 12.
- 2024 **“Re-mixing a piss-poor etymology: On Gk. μαιχός and OE (ge)māh.”**  
*WeCIEC 35: Annual UCLA Indo-European Conference*, Oct. 25.
- 2024 **“Towards an integrative approach to the investigation of linguistic phylogenies.”**  
*5<sup>th</sup> Munich-UCLA Historical Linguistics Colloquium*, Jun. 28.
- 2024 **“FSAs, FSTs and sequence alignment in phylogenetic studies: The case of Tocharian B.”**  
*UCLA Program in Indo-European Studies Graduate Seminar*, May 29.

## INVITED TALKS

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- 2026 “Uncovering the sounds of of ancient languages using phonological typology and experimental phonetics.”  
*LING 114: How to Learn a Foreign Language, University of Arizona, March 14*
- 2026 “A meta-analysis of studies on young infants’ perception of phonetic contrasts.”  
*Department of Linguistics, USC Dornsife, T.B.D*
- 2025 “brms tutorial.”  
*LING 217: Experimental Phonology, UCLA, Nov. 18*
- 2025 “Origins and nature of food vocabulary in English.”  
*Classics 185: Origins and nature of English vocabulary, UCLA, Jul. 8.*
- 2025 “Historical Linguistics.”  
*LING-20: Introduction to the study of language, UCLA (with Aidan Holmgren and Nick Guymon).*
- 2024 “Karma is the breeze in my hair on the weekend: Sanskrit loanwords into English.”  
*Classics 185: Origins and nature of English vocabulary, UCLA, Jul. 11.*

## TEACHING

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- 2026 **Teaching Assistant**  
CLS 52: Greco-Roman Technologies: Materials, Monuments, Machines  
Faculty Supervisor: Prof Sarah Beckmann
- 2025 **Teaching Assistant**  
CLS 51: Art and Archaeology of Ancient Greece  
Instructor of Record: Prof. John Papadopoulos
- 2025 **Instructor of Record**  
LING-110: Introduction to Historical Linguistics, UCLA  
Faculty Supervisor: Prof. Stefan Keine
- 2025 **Undergraduate Supervisor**  
LING-197: Infants’ Discrimination of Phonetic Contrasts, UCLA  
Faculty Supervisor: Prof. Megha Sundara
- 2025 **Teaching Assistant**  
LING-20: Introduction to Linguistic Analysis, UCLA  
Instructor of Record: Prof. Ben Eischens, Prof. Anoop Mahajan
- Fall 2024 **Teaching Assistant**  
LING-110: Introduction to Historical Linguistics, UCLA  
Instructor of Record: Prof. David Goldstein
- Sum. 2024 **Teaching Assistant**  
LING-1: Introduction to the Study of Language, UCLA  
Instructor of Record: Corrina Fuller
- Fall 2021 **Instructor**  
ALS-102: Urdu, Grinnell College

## RESEARCH EXPERIENCE

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- 2025**     **Research Assistant**  
Supervisor: Prof. Brent Vine, UCLA
- 2023–**     **Research Assistant**  
Supervisor: Prof. David Goldstein, UCLA
- 2022**     **Independent research, “*Nibelungenlied* and Middle High German verse”**  
Mentor: Prof. Daniel Reynolds, Grinnell College
- 2021**     **Independent research, “Jewish life in Pakistan.”**  
Mentor: Prof. Viktoria Pötzl, Grinnell College
- 2021**     **Independent research, “Peter Schneider’s *Der Mauerspringer* and the search for a German identity”**  
Mentor: Prof. Vance Byrd, University of Pennsylvania
- 2020**     **Research Assistant, “Modeling pre-historic foraging patterns along the coast of New Orleans.”**  
Supervisor: Prof. Grant McCall, Tulane University

## SCHOLARSHIPS & AWARDS

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- 2025**     Graduate Summer Research Mentorship Award
- 2024 & 2025**     Morvarid Guiv Graduate Fellowship in Zoroastrian Studies
- 2024**     UCLA/Keck Humanistic Inquiry Research Award (shared with Tom Francis, Klaus Kim, and Laura McLean)
- 2024**     Graduate Summer Research Mentorship Award
- 2023–24**     Institute for the Study of Global Antiquity Fellowship
- 2023**     Society for Classical Studies Lionel Pearson Fellowship
- 2022–23**     Joan Palevsky Chair Post-Baccalaureate Scholarship in Classics
- 2022**     CAMWS Award for Outstanding Accomplishment in Classical Studies
- 2022**     Gus and Elfie Kalfass Prize for Excellence in German Studies
- 2021**     Gerald W. LaLonde Fellowship in Classical Studies
- 2021**     UC Berkeley Intensive Greek Workshop Fellowship
- 2019**     Institute for Global Engagement Summer Language Study Scholarship

## EXTERNAL COURSEWORK AND CERTIFICATIONS

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- 2025**     Linguistic Typology in Evolutionary Perspective, Statistical Measures in Corpus Linguistics, Foundations of Predictive Modeling with R, Variationist Sociolinguistics, Reconstructing Syntax, Adaptive Speech Perception and Comprehension, Language Phylogenies  
(LSA Summer Institute, University of Oregon)
- 2024**     Exceptionality, Phonological Grammar and Opacity, Historical Linguistics  
(CreteLing 2024)

- 2021** Old English  
(Leiden Summer School in Languages and Linguistics)
- 2021** The Ancient Greek Workshop  
(UC Berkeley)
- 2020** Deutsch Erleben Workshop  
(Humboldt Universität)
- 2019** German Language Program  
(Universität Leipzig)

## LANGUAGES

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- Ancient** Advanced: Ancient Greek, Hittite, Gothic, Latin, Vedic  
Intermediate: Middle High German, Old Persian, Avestan, Luwian
- Modern** (Near-)Native: Hindi/Urdu, Panjabi, English; German (C1)

## TECHNICAL SKILLS & PROGRAMMING LANGUAGES

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Microsoft Office Suite, NetLogo, RevBayes, Beast2.0, Python, L<sup>A</sup>T<sub>E</sub>X, Julia, Stan, R

R packages: `sp`, `sf`, `brms`, `lme4`, `mgcv`, `rstan`, `R-INLA`, `geostan`, `inlabru`, `cmdstanR` and many others

## SERVICE

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- 2025–** Abstract reviewer, Southern California Undergraduate Linguistics Conference
- 2024–** Graduate Seminar Organizer (with Aidan Holmgren), PIES, UCLA
- 2023–** Mentor, Asian and Asian American Classical Caucus
- 2023–** Organizer, UCLA Indo-European Conference
- 2023–24** Graduate Student Association Representative, UCLA Undergraduate Council
- 2021–22** Co-Chair, Grinnell College Classical Studies Student Education Policy Committee
- 2020–22** Co-Chair, Grinnell College German Studies Student Education Policy Committee

## PROFESSIONAL ORGANIZATIONS

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- 2025–** American Society for the Study of Premodern Asia
- 2025–** Linguistic Society of America
- 2025–** Acoustical Society of America
- 2023–** Indogermanische Gesellschaft
- 2022–** Society for Classical Studies
- 2022–** Classical Association of Midwest and South

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## REFERENCES

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**Prof. David Goldstein**

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University of California, Los Angeles  
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