

Tyler G. Neill *PhD*

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Summary

Experienced Sanskrit philologist and teacher with a proven track record of connecting effectively with students and leveraging technology to support study and learning.

Skills

Teaching: Harvard University Derek Bok Center Teaching Certificate (May 2015), Certificate of Distinction x5.

Languages Spoken: English (*mother tongue*), German (*fluent*), Sanskrit (*expert*), Italian (*elementary*).

Other Languages Studied: French, Hindi, Tibetan, Japanese; Pali, Prakrit; Ancient Greek, Latin, Old English.

Technical: Python, JavaScript; Git, GitHub, Docker; AWS, Digital Ocean, Nginx; SQL, MongoDB, Neo4j.

Digital Sanskrit Projects

Pramāṇa NLP: Corpus of structurally annotated Sanskrit philosophy texts.

Vātāyana: Interactive tool for exploring topics and textual parallels within the Pramāṇa NLP corpus.

Skrutable: Toolkit for Sanskrit transliteration, metrical analysis, and word segmentation.

Pāṇḍitya: Tool for visually exploring networks of works and authors in the Pandit Project database.

HANSEL: Human-Accessible NLP-ready Sanskrit E-text Library.

Work Experience

Muktabodha

Technical Director, Digital Library

(REMOTE)

November 2024 – Present

- Designed and implemented new digital library web app along with data ingestion pipeline.

Abnormal Security

Software Engineer 1 (IC3)

SAN FRANCISCO, CA (REMOTE)

July 2024 – January 2025

- Maintained cybersecurity data ingestion system using Python, Django, Golang, Kafka, and GitHub.

BenevolentAI

Advanced Software Engineer (IC3)

NEW YORK, NY

April 2022 – May 2024

- Maintained biotechnology data pipeline and API using Python, FastAPI, Kubernetes, Neo4j, and GitLab.
- Led “HackerHour” knowledge-sharing group for engineers, onboarded several coworkers onto products.

Leipzig University

PhD Research Associate

LEIPZIG, GERMANY

April 2017 – December 2020

- Assisted Digital Nyāyabhāṣya team with manuscript transcription, data curation, and software development.
- Created open-source libraries and web-based tools for Sanskrit community as part of dissertation research.

Harvard University

Sanskrit Librarian

CAMBRIDGE, MA

August 2015 – September 2016

- Renovated Widener Library Sanskrit Reading Room, including physical overhaul, curation, and cataloging.

Graduate Student Teaching Fellow

September 2013 – May 2015

- Designed and taught beginning and intermediate Sanskrit classes, created new pedagogical materials, led analytical group reading, and orchestrated homework self-correction system.

Education

Leipzig University

Doctor of Philosophy, Sanskrit and Digital Humanities

LEIPZIG, GERMANY

2017 – 2022

Harvard University

Master of Arts, Sanskrit and Indian Studies

CAMBRIDGE, MA

2011 – 2015

Bachelor of Arts, Environmental Science and Public Policy

2003 – 2008

Publications and Presentations

- Neill, Tyler. 2026.** "HANSEL: A Human-Accessible, NLP-Ready Sanskrit E-Text Library". Presentation given at *8th International Sanskrit Computational Linguistics Symposium*, March 9-11, 2026, IIT Roorkee, Roorkee, India (remote).
- . **2025.** "Kalpataru Grove: Tools, Texts, and Infrastructure for Sanskrit Digital Humanities." Presentation given at Price Lab DH Seminar, March 16, 2026, University of Pennsylvania.
- . **2025.** "Pāṇḍitya: Visualizing Sanskrit Intellectual Networks". In: *Computational Sanskrit and Digital Humanities - World Sanskrit Conference 2025*, pages 148–160, Kathmandu, Nepal. Association for Computational Linguistics.
- Hiroko Matsuoka, Shinya Moriyama, Tyler Neill (eds.). 2023.** *To the Heart of Truth: Felicitation Volume for Eli Franco on the Occasion of his Seventieth Birthday*. 2 vols. Wiener Studien zur Tibetologie und Buddhismuskunde 104. Wien: Arbeitskreis für Tibetische und Buddhistische Studien Universität Wien, 2023. (xliii + 806 p.)
- Neill, Tyler. 2023.** "Vātāyana: A Window onto the Pramāṇa NLP Corpus". Presentation given at the Advanced Computational Methods for Studying Buddhist Texts symposium, April 27–28, 2023, University of Vienna.
- . **2022.** "Intertextual Readings of the Nyāyabhāṣya on Buddhist Anti-Realism". Doctoral dissertation, Leipzig University. <https://nbn-resolving.org/urn:nbn:de:bsz:15-qucosa2-826296>
- . **2022.** "Skrutable: Another Step Toward Effective Sanskrit Meter Identification." In: *Proceedings of the Computational Sanskrit & Digital Humanities: Selected papers presented at the 18th World Sanskrit Conference*, pages 97–112, Canberra, Australia (Online mode). Association for Computational Linguistics.
- . **2021.** "LDA Topic Modeling in Sanskrit with ToPān and Metallō." Presentation given at The Digital Orientalist's Virtual Workshop and Conference, June 26, 2021. Video at: <https://youtu.be/eQSBteKN-FA>.
- . **2019.** "LDA Topic Modeling for Pramāṇa Texts: A Case Study in Sanskrit NLP Corpus Building." In: *Proceedings of the 6th International Sanskrit Computational Linguistics Symposium*, pages 52–67, IIT Kharagpur, India. Association for Computational Linguistics.
- . **2017.** "Sanskrit Text Corpora and the Nyāyabhāṣya Digital Critical Edition." Presentation given at Florilegia: Big Textual Data Workshop, July 10–11, 2017, Leipzig University.

Research Awards

Library of Congress

WASHINGTON, D.C.

Florence Tan Moeson Fellowship

November 2020

Studied Indo-Aryan Sanskrit Ms. series in South Asian Manuscripts, identified numerous unidentified works.

American Institute of Indian Studies

PUNE, INDIA

Harvard University South Asia Institute, Graduate Summer Grant

Summer 2013

Studied Jain Prakrits and read *Sūtrakṛtāṅgasūtra* intensively at Deccan College.
