Nicholas Tomlin

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Education

University of California, Berkeley **Aug 2019 – May 2025 (Expected)**
Ph.D. Student, EECS Department
Advisor: Dan Klein

Brown University **Aug 2015 – May 2019**
B.A. Mathematics and Linguistics
Advisor: Ellie Pavlick

Papers

Autonomous Evaluation and Refinement of Digital Agents
Jiayi Pan, Yichi Zhang, **Nicholas Tomlin**, Yifei Zhou, Sergey Levine, Alane Suhr
CVPR Workshop on Multimodal Algorithmic Reasoning. 2024.

Decision-Oriented Dialogue for Human–AI Interaction
Jessy Lin*, **Nicholas Tomlin***, Jacob Andreas, Jason Eisner
ICLR Workshop on LLM Agents. 2024.

Ghostbuster: Detecting Text Ghostwritten by Large Language Models
Vivek Verma, Eve Fleisig, **Nicholas Tomlin**, Dan Klein
North American Association for Computational Linguistics. 2024.

Revisiting Entropy Rate Constancy in Text
Vivek Verma*, **Nicholas Tomlin***, Dan Klein
Findings of EMNLP. 2023.

Pragmatics in Grounded Language Learning (Survey Paper)
Daniel Fried*, **Nicholas Tomlin***, Jennifer Hu, Roma Patel, Aida Nematzadeh
Findings of EMNLP. 2023.

Neural Unsupervised Reconstruction of Protolanguage Word Forms
Andre He, **Nicholas Tomlin**, Dan Klein
Association for Computational Linguistics. 2023.

Understanding Game-Playing Agents with Natural Language Annotations
Nicholas Tomlin, Andre He, Dan Klein
Association for Computational Linguistics. 2022.

Automated Crossword Solving
Eric Wallace*, **Nicholas Tomlin***, Albert Xu*, Kevin Yang*, Eshaan Pathak*, Matthew
L. Ginsberg, and Dan Klein
Association for Computational Linguistics. 2022.

LingView: A Web Interface for Viewing FLEx and ELAN Files
Kalinda Pride*, Nicholas Tomlin*, Scott Anderbois
Language Documentation and Conservation. 2020.

Emergent Compositionality in Signaling Games
Nicholas Tomlin, Ellie Pavlick
Annual Meeting of the Cognitive Science Society. 2019.

Incremental Pragmatics and Emergent Communication
Nicholas Tomlin, Ellie Pavlick
NeurIPS Workshop on Emergent Communication. 2018.

Work	**Microsoft Semantic Machines**	**Aug 2022 – Ongoing**

Visiting Researcher
Hosts: Jacob Andreas and Jason Eisner

Stanford University   **May 2018 – Aug 2018**
Research Intern, CSLI REU
Advisor: Christopher Potts

Teaching   **Berkeley CS188: Introduction to Artificial Intelligence**   **Summer 2023**
Co-instructor for course with 178 students. Managed a staff of 15 (u)GSIs, readers, and tutors. Responsibilities included designing and giving lectures, managing homework and project releases, organizing exams, and holding instructor office hours.

Berkeley CS288: Natural Language Processing   **Spring 2022**
Head teaching assistant for a course with 106 students. Responsibilities included creating three new programming assignments, holding office hours, and guest lecturing.

Brown CSCI1570: Design and Analysis of Algorithms   **Fall 2018**
Teaching assistant for a course of 164 students. Responsibilities included writing and grading problem sets, holding office hours, proctoring written and oral exams, teaching recitation sections, and writing and grading the midterm and final exams.

Brown LING0030: Introduction to Linguistic Theory   **Fall 2018**
Teaching assistant for a course of 78 students. Responsibilities included grading problem sets and exams, holding office hours, and offering exam review lectures.

Brown MATH1530: Abstract Algebra   **Fall 2017**
Head teaching assistant for a course of 62 students. Responsibilities included grading homeworks, managing graders, holding office hours, and teaching recitation sections.

Brown MATH1040: Fundamental Problems of Geometry   **Spring 2017**
Grader for an undergraduate course in point-set topology and non-Euclidean geometry. Responsibilities included grading weekly problem sets and midterm exams.

Invited   **Language Agents as Rational Agents**
Talks   USC Natural Language Processing Seminar   Oct 2023

Decision-Oriented Dialogue for Human–AI Collaboration
Berkeley Multi-Agent Learning Seminar   Sep 2023

Language Generation, Grounding, and Pragmatics in Game-Playing Domains
DeepMind Multi-Agent Learning Group   Mar 2023
Brown University Computer Science Department   Oct 2022

Guest Lectures	Brown CLPS 350: The Linguistics of Crossword Puzzles.	Spring 2024
	Berkeley STAT 127: Information Theory and NLP. Panelist.	Spring 2024
	Berkeley CS188: Computational Rationality and LLMs.	Fall 2023
	Berkeley CS288: Philosophy of Evaluation and Data. Panelist.	Fall 2023
	Berkeley CS288: The Future of Natural Language Processing. Panelist.	Spring 2023
	Berkeley CS288: The Future of Natural Language Processing. Panelist.	Spring 2022
	Berkeley CS288: Pragmatics and Language Grounding.	Spring 2022
	Berkeley CS288: Pragmatics and Language Grounding.	Spring 2021

Department Service

Berkeley Equal Access for Application Assistance   **2023**
Volunteer reviewer to provide feedback on PhD application materials to students from under-represented backgrounds.

Berkeley Student Committee for Faculty Hiring   **2022-2023**
Attended and organized student interviews for EECS faculty candidates.

Berkeley PhD EECS Admissions   **2019-2022, 2024**
Reviewed applications to Berkeley EECS for the Berkeley NLP Group.

Berkeley AI4ALL   **2019-2022**
Co-instructor for one week-long AI program for high school students from underrepresented backgrounds. Designed and taught NLP course materials for three years in a row.

Berkeley EECS Mentoring   **2019-2022**
Mentor with the Berkeley AI Research Undergraduate Mentoring Program, EECS Buddy, and EECS Peers programs. Held weekly peer mentoring office hours.

Advising	Austen Liao. Undergraduate.	2023 – Ongoing
	Vivek Verma. Undergraduate.	2022 – Ongoing
	Andre He. Undergraduate. ($\rightarrow$ CMU PhD)	2021 – 2024
	Xinyun (Lily) Zhang. MS Computer Science. ($\rightarrow$ Waymo)	2020 – 2021

Miscellany

Awards Outstanding Graduate Student Instructor (Berkeley), Graduate Student Research Fellowship (NSF), Undergraduate Teaching and Research Award (Brown)

Reviewing NeurIPS (Outstanding Reviewer), ICML, ICLR, ACL Rolling Review, EMNLP, Workshop on Visually Grounded Interaction and Language (ViGIL), Workshop on Emergent Communication (EmeCom), ACL Student Research Workshop (ACL-SRW)