

Stephanie Schoch

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EDUCATION

Ph.D. in Computer Science

University of Virginia

Aug 2019 - Current

CGPA 3.94/4.00

M.C.S. in Computer Science

University of Virginia

Aug 2019 - May 2024

CGPA 3.94/4.00

B.S. in Computer Science and Psychology

St. Mary's College of Maryland

Aug 2016 - May 2019

CGPA 3.91/4.00

RESEARCH EXPERIENCE

Graduate Research Assistant

Information and Language Processing Lab, University of Virginia

Aug 2019 - Current

Advisor: Yangfeng Ji

Summer Research Intern

Query Understanding Team, Walmart Labs

May 2021 - Aug 2021

Mentor: Lin Gong

- Researched multi-task learning for context-aware query rewrite in e-commerce.

Summer Research Intern

CASAS, Washington State University

May 2019 - Aug 2019

Mentor: Diane Cook

- Utilized optical flow and change point detection algorithms as applied to smartwatch sensor data and smart home video data for automatic activity learning, including activity recognition and step segmentation.

Undergraduate Student Researcher

St. Mary's College of Maryland

Aug 2018 - May 2019

Advisor: Alan Jamieson

- Conducted senior thesis research on multi-document text summarization.

Library User Experience (UX) Research Fellow

Library, Archives & Media Center, St. Mary's College of Maryland

Jan 2018 - May 2019

Mentor: Amanda VerMeulen

- Developed a three-year strategic plan for user experience (UX) research for the SMCM Library, Archives, & Media Center.
- Conducted usability testing on two library web resources, delivering findings to internal stakeholders and research community through publication.

AWARDS AND HONORS

UVA Engineering Teaching Fellowship	2024
NeurIPS 2022 Scholar Award	2022
Best Poster (Session 1) UVA CSGSG Research Symposium	2022
Outstanding Position Paper (INLG 2021)	2021
CRA-WP Grad Cohort for Women Travel Funding	2020
UVA Computer Science Fellowship	2019
SMCM Senior Award in Computer Science	2019
AnitaB Grace Hopper Celebration (GHC) Scholar	2019
Omicron Delta Kappa (ODK) – The National Leadership Honor Society Inductee	2018
CRA-W Grace Hopper Celebration (GHC) Research Scholar	2018
St. Mary’s Scholar	2017
Psi Chi – The International Honor Society in Psychology Inductee	2017

PUBLICATIONS

1. “The Good, the Bad, and the Debatable: A Survey on the Impacts of Data for In-Context Learning.” **Stephanie Schoch**, Yangfeng Ji. *Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, Nov 2025.
2. “Monte Carlo Sampling for Analyzing In-Context Examples.” **Stephanie Schoch**, Yangfeng Ji. *Proceedings of the Sixth Workshop on Insights from Negative Results in NLP (NAACL Insights)*, May 2025.
3. “In-Context Learning (and Unlearning) of Length Biases.” **Stephanie Schoch**, Yangfeng Ji. *Proceedings of the 2025 Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics: Human Language Technologies (NAACL)*, May 2025.
4. “Data Selection for Fine-tuning Large Language Models Using Transferred Shapley Values.” **Stephanie Schoch**, Ritwick Mishra, Yangfeng Ji. *Proceedings of the 61st Annual Meeting of the Association for Computational Linguistics Student Research Workshop (ACL SRW)*, June 2023.
5. “Barriers and enabling factors for error analysis in NLG research.” Emiel van Miltenburg, Miruna Clinciu, Ondřej Dušek, Dimitra Gkatzia, Stephanie Inglis, Leo Leppänen, Saad Mahamood, **Stephanie Schoch**, Craig Thomson, Luou Wen. *Northern European Journal of Language Technology (NEJLT)*, Feb 2023.
6. “CS-Shapley: Class-wise Shapley Values for Data Valuation in Classification.” **Stephanie Schoch**, Haifeng Xu, Yangfeng Ji. *Proceedings of the 36th International Conference on Neural Information Processing Systems (NeurIPS)*, Nov 2022.
7. “Ask and you shall receive?: A LibAnswers FAQ usability study.” **Stephanie Schoch**, Amanda VerMeulen. *Weave: Journal Of Library User Experience*, Oct 2022.
8. “Contextualizing Variation in Text Style Transfer Datasets.” **Stephanie Schoch**, Wanyu Du, Yangfeng Ji. *Proceedings of the 14th International Conference on Natural Language Generation (INLG)*, Aug 2021.
9. “Underreporting of errors in NLG output, and what to do about it.” Emiel Van Miltenburg, Miruna-Adriana Clinciu, Ondřej Dušek, Dimitra Gkatzia, Stephanie Inglis, Leo Leppänen, Saad Mahamood, Emma Manning, **Stephanie Schoch**, Craig Thomson, Luou Wen. *Proceedings of the*

14th International Conference on Natural Language Generation (INLG), Aug 2021. **Outstanding Position Paper.**

10. “This is a Problem, Don’t You Agree?” Framing and Bias in Human Evaluation for Natural Language Generation.” **Stephanie Schoch**, Diyi Yang, Yangfeng Ji. *Proceedings of the 1st Workshop on Evaluating NLG Evaluation (EvalNLGEval)*, Dec 2020.

ORGANIZED EVENTS

NeurIPS 2023

Tutorial: Data Contribution Estimation for Machine Learning *Dec 2023*
Stephanie Schoch, Ruoxi Jia, Yangfeng Ji
- *Software Artifact - Valda: A Python Package of Data Valuation in Machine Learning*

TEACHING EXPERIENCE

Department of Computer Science, University of Virginia

Co-Instructor. *CS 4710 - Artificial Intelligence* *Spring 2024*
Teaching Assistant. *CS 8501 - Advanced Topics in Machine Learning* *Fall 2022*
Head Teaching Assistant. *CS 6316 - Machine Learning* *Spring 2022*
Teaching Assistant. *CS 4501 - Foundations of Data Analysis* *Spring 2021*
Teaching Assistant. *CS 4501 - Machine Learning for NLP* *Fall 2020*

Department of Computer Science, St. Mary’s College of Maryland

Teaching Assistant. *COSC 230 - Computer Architecture* *Fall 2020*

Great Mills High School

Volunteer Tutor. *AP Computer Science* *Spring 2018*

INVITED TALKS

University of Virginia

AIML Seminar Invited Talk *Nov 2023*
Data Contribution Estimation for Large Language Models

CAPWIC 2023

Invited Panelist *Apr 2023*
Graduate School Panel

University of Virginia

Guest Lecture - CS 6501 (NLP) *Apr 2021*
Introduction to Text Generation

University of Virginia

Guest Lecture - CS 4501 (ML4NLP) *Nov 2020*
Introduction to Text Generation

Georgetown University GuWeCode

Invited Panelist *Oct 2020*
Graduate School Panel

PROFESSIONAL SERVICES

Reviewer for NeurIPS	2025
Reviewer for BEA	2025, 2026
Reviewer for ARR	2024 - Ongoing
Program Committee for AAAI	2024, 2025
Program Committee for ACL	2023
Program Committee for EMNLP	2022-2023
Program Committee for LREC	2022, 2024, 2026
Reviewer for NLPCC	2021 - 2024
Student Chair for SMCM Department of Mathematics & CS Hiring Committee	Spring 2019
Student Ambassador for Maryland Regional Junior Science and Humanities Symposium	March 2019
Vice President for ACM-W SMCM Chapter	Spring 2018 - Spring 2019
Vice President for Psi Chi Honor Society SMCM Chapter	Spring 2018 - Spring 2019