

TOM SHERBORNE

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RESEARCH [SEMANTIC SCHOLAR](#)

SUMMARY

- Finalizing a PhD in NLP researching cross-lingual transfer and multilinguality in structured prediction tasks. Four first author papers in ACL, EMNLP, and TACL with expected completion in January 2024.
- Seven years experience in NLP research including cross-lingual transfer, machine translation evaluation, and multimodal generative models. Recent work focuses on multilinguality using latent variables, optimization algorithms for domain adaptation, and parameter compression for large language models.
- Pursuing an industry role for research in expanding NLP to new languages & communities, model efficiency, and theoretical & empirical analysis of optimization.

EDUCATION

2019 - Now	PhD Computer Science Thesis: Learning Cross-lingual Transfer Through The Lens Of Semantic Parsing Advisor: Mirella Lapata Low resource cross-lingual transfer for semantic parsing and structure prediction. First author papers modeling machine translation , zero-shot transfer , meta-learning and optimal transport over latent variable models .	University of Edinburgh Completion: 01/24 (expected)
2018 - 2019	MSc(R) Data Science Thesis: Bootstrapping a Crosslingual Semantic Parser Advisor: Mirella Lapata	University of Edinburgh Award: DISTINCTION (79%)
2017 - 2018	MPhil Advanced Computer Science Thesis: Evaluating Image Description Systems with Truth-Conditional Semantics Advisor: Ann Copestake	University of Cambridge Award: DISTINCTION (85%)
2013 - 2017	MEng Electronic Engineering Undergraduate Bachelor & Master Combined Degree Program	University College London Award: 1ST HONS (84%)
2015 - 2016	Columbia University – Exchange Student (GPA: 3.84)	

EMPLOYMENT

APR - OCT. 2023 2023	Allen Institute for AI – AllenNLP Research Intern Cross-lingual and cross-domain optimization & training dynamics with Hao Peng and Pradeep Dasigi.
SEP. - MAR 2018 2023	University of Edinburgh – Informatics Teaching Assistant Teaching Assistant for Deep Learning & Natural Language Processing class for 200+ students. Lead Instructor for GPU Programming and Cluster Training using PyTorch and Slurm.
JUN - SEP. 2018 2018	Apple – Siri Machine Learning Intern Cross-lingual spoken language understanding & sequence tagging with Diarmuid Ó Séaghdha.

RECENT PUBLICATIONS

ICLR24	TRAM: Bridging Trust Regions and Sharpness Aware Minimization Tom Sherborne , Naomi Saphra, Pradeep Dasigi and Hao Peng <i>Submission under review</i>
TACL23	Optimal Transport Posterior Alignment for Cross-lingual Semantic Parsing Tom Sherborne , Tom Hosking and Mirella Lapata Transactions of the Association for Computational Linguistics (2023): Accepted Pending Publication
ACL23	Extrinsic Evaluation of Machine Translation Metrics Nikita Moghe, Tom Sherborne , Mark Steedman and Alexandra Birch Proceedings of ACL 2023, Outstanding Paper Award
TACL23	Meta-Learning a Cross-lingual Manifold for Semantic Parsing Tom Sherborne and Mirella Lapata Transactions of the Association for Computational Linguistics (2023) 11: 49–67

SKILLS & PROFESSIONAL SERVICE

TECHNICAL	Python (NumPy, SciPy, Pandas, PyTorch), Git, Bash/UNIX, Slurm, Docker, \LaTeX .
REVIEWER	JMLR, ACL & ARR, EMNLP, NeurIPS, ICML. ICLR22 highlighted reviewer , ACL23 best reviewer .
VOLUNTEER	ACL2020, ACL2021, EMNLP2021, ACL2023.