

# TOM SHERBORNE

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RESEARCH [SEMANTIC SCHOLAR](#)

## SUMMARY

- Finalizing a PhD in NLP researching cross-lingual transfer and multilinguality in sequence-to-sequence tasks. Four first author papers in ACL, EMNLP, and TACL with expected completion in January 2024.
- Six years experience in NLP 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 compression techniques for large language models.
- Excited by research in expanding NLP to new languages & communities, model efficiency, and theoretical & practical understanding of optimization. Pursuing industry roles in these areas for 2024 onwards.

## EDUCATION

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

## EMPLOYMENT

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

## RECENT PUBLICATIONS

ICLR24	<a href="#">TRAM: Bridging Trust Regions and Sharpness Aware Minimization</a> <b>Tom Sherborne</b> , Naomi Saphra, Pradeep Dasigi and Hao Peng <i>Submission under review</i>
TACL23	<a href="#">Optimal Transport Posterior Alignment for Cross-lingual Semantic Parsing</a> <b>Tom Sherborne</b> , Tom Hosking and Mirella Lapata Transactions of the Association for Computational Linguistics (2023): Accepted Pending Publication
ACL23	<a href="#">Extrinsic Evaluation of Machine Translation Metrics</a> Nikita Moghe, <b>Tom Sherborne</b> , Mark Steedman and Alexandra Birch Proceedings of ACL 2023, <b>Outstanding Paper Award</b>
TACL23	<a href="#">Meta-Learning a Cross-lingual Manifold for Semantic Parsing</a> <b>Tom Sherborne</b> 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 <a href="#">highlighted reviewer</a> , ACL23 <a href="#">best reviewer</a> .
VOLUNTEER	ACL2020, ACL2021, EMNLP2021, ACL2023.