

TOM SHERBORNE

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RESEARCH [SEMANTIC SCHOLAR](#)

SUMMARY

- Finalising a PhD in NLP researching cross-lingual transfer and multilinguality in structured prediction tasks. Four first author papers in ACL, EMNLP, and TACL with completion and viva in early 2024.
- Eight years experience in NLP research including cross-lingual transfer, machine translation evaluation, and multimodal generative models. Recent work focuses on multi-domain representation alignment using latent variables, optimization algorithms for domain adaptation, and parallel pre-training for large language models.

EDUCATION

2019 - 2024	PhD Computer Science Thesis: 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 Submission: 01/24
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

Jan - Now 2024	University of Edinburgh – Research Associate Latent Variable Models for Cross-lingual Information Retrieval with Mirella Lapata.
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.
Jun - Sep 2018 2018	Apple – Siri Machine Learning Intern Cross-lingual spoken language understanding & sequence tagging with Diarmuid Ó Séaghdha.

RECENT PUBLICATIONS

Preprint	Exploring the Limits of Massively Embarrassingly Parallel Pre-Training Clara Na, Ian Magnusson, Ananya Harsh Jha, Tom Sherborne , Pradeep Dasigi, Jesse Dodge and Emma Strubell Work in progress to submit to ACL 2024
Preprint	How To Train Your (Compressed) Large Language Model Ananya Harsh Jha, Tom Sherborne , Evan Pete Walsh, Dirk Groeneveld, Emma Strubell, Iz Beltagy Work in progress to submit to ACL 2024
ICLR24	TRAM: Bridging Trust Regions and Sharpness Aware Minimization Tom Sherborne , Naomi Saphra, Pradeep Dasigi and Hao Peng Accepted to ICLR 2024 (Spotlight, Top 5%)
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) Vol. 11: 1432–1450.
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) Vol. 11: 49–67.

SKILLS & PROFESSIONAL SERVICE

TECHNICAL	5+ years: Python (NumPy, SciPy, Pandas, PyTorch), Git, Bash/UNIX, Slurm, \LaTeX . 1+ years: SQL, Java, C++, Assembly.
REVIEWER	JMLR, ACL & ARR, EMNLP, NeurIPS, ICML. ICLR22 highlighted reviewer , ACL23 best reviewer .