

TU VU

tuv@vt.edu

<https://tuvllms.github.io>

APPOINTMENTS

Virginia Tech Assistant Professor, Computer Science Research Interests: <i>large language models</i> & <i>transfer learning</i>	August 2024 —
Google DeepMind Research Scientist	May 2024 —
Google Research Research Scientist	August 2023 — May 2024

EDUCATION

University of Massachusetts, Amherst M.S/PH.D. in Computer Science Advisor: Mohit Iyyer Thesis committee: Mohit Iyyer , Subhransu Maji , Hamed Zamani , Thang Luong , Colin Raffel	2016 — 2023 2018 — 2023
Vietnam National University, Hanoi B.S. Honors Program in Computer Science Highest distinction (class rank: 1/100)	2009 — 2013

PROFESSIONAL EXPERIENCE

Google DeepMind Student Researcher <i>with</i> Thang Luong & Quoc Le	Fall 2022 — Spring 2023
Google DeepMind Research Intern <i>with</i> Thibault Sellam & Elizabeth Clark	Summer 2022
Google DeepMind Student Researcher <i>with</i> Noah Constant	Winter 2021 — Spring 2022
Google Research Research Intern & Student Researcher <i>with</i> Daniel Cer & Noah Constant	Summer 2021 — Fall 2021
Google DeepMind Student Researcher <i>with</i> Thang Luong & Quoc Le	Winter 2020 — Spring 2021
Google Research Research Intern <i>with</i> Grady Simon & Zi Yang & Nan Hua	Summer 2020
Microsoft Research Research Intern <i>with</i> Tong Wang & Tsendsuren Munkhdalai & Adam Trischler	Summer 2019

SELECTED PREPRINTS & PUBLICATIONS

For an up-to-date list of my research papers, please see my [Google Scholar](#) profile or my [Semantic Scholar](#) profile.

[FreshLLMs: Refreshing Large Language Models with Search Engine Augmentation](#)

Tu Vu, Mohit Iyyer, Xuezhi Wang, Noah Constant, Jerry Wei, Jason Wei, Chris Tar, Yun-Hsuan Sung, Denny Zhou, Quoc Le, and Thang Luong
arXiv preprint 2023

[The Flan Collection: Designing Data and Methods for Effective Instruction Tuning](#)

Shayne Longpre, Le Hou, **Tu Vu**, Albert Webson, Hyung Won Chung, Yi Tay, Denny Zhou, Quoc V Le, Barret Zoph, Jason Wei, and Adam Roberts
ICML 2023

[Mixture-of-experts meets instruction tuning: A winning combination for large language models](#)

Sheng Shen, Le Hou, Yanqi Zhou, Nan Du, Shayne Longpre, Jason Wei, Hyung Won Chung, Barret Zoph, William Fedus, Xinyun Chen, **Tu Vu**, Yuexin Wu, Wuyang Chen, Albert Webson, Yunxuan Li, Vincent Zhao, Hongkun Yu, Kurt Keutzer, Trevor Darrell, and Denny Zhou
ICLR 2024

[SPoT: Better Frozen Model Adaptation through Soft Prompt Transfer](#)

Tu Vu, Brian Lester, Noah Constant, Rami Al-Rfou, and Daniel Cer
ACL 2022

[Overcoming Catastrophic Forgetting in Zero-Shot Cross-Lingual Generation](#)

Tu Vu, Aditya Barua, Brian Lester, Daniel Cer, Mohit Iyyer, and Noah Constant
EMNLP 2022

[STraTA: Self-Training with Task Augmentation for Better Few-shot Learning](#)

Tu Vu, Minh-Thang Luong, Quoc Le, Grady Simon, and Mohit Iyyer
EMNLP 2021

[Exploring and Predicting Transferability across NLP Tasks](#)

Tu Vu, Tong Wang, Tsendsuren Munkhdalai, Alessandro Sordani, Adam Trischler, Andrew Mattarella-Micke, Subhransu Maji, and Mohit Iyyer
EMNLP 2020

RECENT INVITED TALKS

[Efficient Adaptation of Large Language Models](#)

Graph Neural Networks Reading Group, **Google**

November 2023

[Effective and Efficient Transfer Learning
in the Era of Large Language Models](#)

Faculty job talk

Spring 2023

[Overcoming Catastrophic Forgetting
in Zero-Shot Cross-Lingual Generation](#)

Parameter Efficient Tuning Methods Sync, **Google**

October 2022

[Transfer Learning with Large-scale Language Models](#)

Lecture at **VietAI**

August 2022

The Appeal of Parameter-efficient Transfer Learning
Natural Language Accelerated Team, **Google**

June 2022

SPoT: Better Frozen Model Adaptation through Soft Prompt Transfer
Parameter Efficient Tuning Methods Sync, **Google**

December 2021

ACADEMIC SERVICE

Area Chair for ACL ROLLING REVIEW (ARR)

Program Committee/Reviewer for various conferences and workshops: NEURIPS, COLM, ARR, ACL, EMNLP, NAACL, COLING, CoNLL, INLG

SELECTED MEDIA

FRESHLLMs: [ZDNET](#) 2023
THE FLAN COLLECTION: [Google Research Blog](#) 2023
SPoT: [Headlines of Google AI's Natural Language Accelerated Newsletter](#) Q1, 2022

SELECTED AWARDS & HONORS & FUNDING

Google Student Researchships 2020 — 2023
UMass Amherst Graduate Assistantships 2016 — 2023
Honda Y-E-S Award for young engineers and scientists, Vietnam (in the top 10 nationally) 2013
Outstanding Academic and Co-curricular Achievements, Vietnam National University 2013
Prominent Young Figure Award, Vietnam National University 2010 & 2012
First Runner-up Prize, International Programming Contest, Japan (2nd among 64 teams internationally) 2011
Outstanding Young Talent of the Capital City, Vietnam (in the top 100 most outstanding young talents selected from a wide range of fields) 2010
Champion Prize, National Mathematical Olympiad, Vietnam (1st among more than 600 contestants nationally) 2010
A number of prizes in National/International Olympiads (in both Mathematics and Informatics) 2009 — 2013
A number of academic scholarships for undergraduate students 2009 — 2013

PATENTS

*: original inventor

[Frozen Model Adaptation Through Soft Prompt Transfer](#)

Tu Vu, Brian Lester, Noah Constant, Rami Al-Rfou, Daniel Cer
U.S. Patent Application, 17/863,840

Task Augmentation and Self-training for Improved Few-shot Learning

Thang Luong, **Tu Vu***, Quoc Le, Grady Simon

U.S. Patent Application, 17/826,690