

# TU VU

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<https://tuvllms.github.io>

## APPOINTMENTS

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### Virginia Tech

Assistant Professor, Computer Science

Research Interests: *large language models, transfer learning*

August 2024 —

### Google Research

Research Scientist

July 2023 — *present*

## EDUCATION

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### University of Massachusetts, Amherst

M.S/PH.D. in Computer Science

Advisor: [Mohit Iyer](#)

2016 — 2023

2018 — 2023

### Vietnam National University, Hanoi

B.S. Honors Program in Computer Science

Class rank: 1<sup>st</sup> out of 100, *highest distinction*

2009 — 2013

## PROFESSIONAL EXPERIENCE

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### Google Deepmind

Student Researcher *with* [Thang Luong](#) & [Quoc Le](#)

Fall 2022 — Spring 2023

### Google Deepmind

Research Intern *with* [Thibault Sellam](#) & [Elizabeth Clark](#)

Summer 2022

### Google Deepmind

Student Researcher *with* [Noah Constant](#)

Winter 2021 — Spring 2022

### Google Research

Research Intern & Student Researcher *with* [Daniel Cer](#) & [Noah Constant](#)

Summer 2021 — Fall 2021

### Google Deepmind

Student Researcher *with* [Thang Luong](#) & [Quoc Le](#)

Winter 2020 — Spring 2021

### Google Research

Research Intern *with* [Grady Simon](#) & [Zi Yang](#) & [Nan Hua](#)

Summer 2020

### Microsoft Research

Research Intern *with* [Tong Wang](#) & [Tsendsuren Munkhdalai](#) & [Adam Trischler](#)

Summer 2019

## SELECTED PREPRINTS & PUBLICATIONS

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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  
**arXiv preprint 2023**

### 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 Sordoni, Adam Trischler, Andrew Mattarella-Micke, Subhansu Maji, and Mohit Iyyer  
**EMNLP 2020**

## RECENT INVITED TALKS

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### 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

**Program Committee/Reviewer** for various conferences and workshops in machine learning and natural language processing, including NEURIPS, ARR, ACL, EMNLP, NAACL, COLING, CoNLL, INLG.