

# TU VU

[tuv@vt.edu](mailto:tuv@vt.edu)

<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

August 2023 — *present*

## EDUCATION

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### 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

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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  
**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 Sordoni, Adam Trischler, Andrew Mattarella-Micke, Subhransu 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

## ACADEMIC SERVICE

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**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

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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

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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  
(2<sup>nd</sup> 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  
(1<sup>st</sup> 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

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\*: 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