

# TU VU

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

<https://tuvllms.github.io>

## APPOINTMENTS

---

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

## EDUCATION

---

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

## PROFESSIONAL EXPERIENCE

---

|   |                           |
|---|---------------------------|
| <b>Google Deepmind</b><br>Student Researcher <i>with</i> <a href="#">Thang Luong</a> & <a href="#">Quoc Le</a>  | Fall 2022 — Spring 2023   |
| <b>Google Deepmind</b><br>Research Intern <i>with</i> <a href="#">Thibault Sellam</a> & <a href="#">Elizabeth Clark</a>                                     | Summer 2022               |
| <b>Google Deepmind</b><br>Student Researcher <i>with</i> <a href="#">Noah Constant</a>  | Winter 2021 — Spring 2022 |
| <b>Google Research</b><br>Research Intern & Student Researcher <i>with</i> <a href="#">Daniel Cer</a> & <a href="#">Noah Constant</a>                       | Summer 2021 — Fall 2021   |
| <b>Google Deepmind</b><br>Student Researcher <i>with</i> <a href="#">Thang Luong</a> & <a href="#">Quoc Le</a>  | Winter 2020 — Spring 2021 |
| <b>Google Research</b><br>Research Intern <i>with</i> <a href="#">Grady Simon</a> & <a href="#">Zi Yang</a> & <a href="#">Nan Hua</a>                       | Summer 2020               |
| <b>Microsoft Research</b><br>Research Intern <i>with</i> <a href="#">Tong Wang</a> & <a href="#">Tsendsuren Munkhdalai</a> & <a href="#">Adam Trischler</a> | 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 Sordoni, Adam Trischler, Andrew Mattarella-Micke, Subhransu Maji, and Mohit Iyyer  
**EMNLP 2020**

## RECENT INVITED TALKS

---

[Efficient Adaptation of Large Language Models](#)

November 2023

Graph Neural Networks Reading Group, **Google**

[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  
(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

---

\*: 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