Spencer Young

spencermyoung513@gmail.com • spencer-m-young
spencermyoung513 • Last updated on July 14, 2025

My research lies at the intersection of probabilistic deep learning, uncertainty quantification, perception, interpretability, and data-efficient learning. I aim to build safe, intelligent systems that not only accelerate human progress, but do so with honest and principled representations of their uncertainty. My work blends theoretical rigor with real-world deployment and has led to multiple peer-reviewed publications, as well as several impactful products in the retail intelligence space.

Education

B.S. in Applied and Computational Mathematics, Brigham Young University (4.0/4.0) 2017 – 2023

Experience

Delicious AI, Lehi, UT — Machine Learning Scientist 2023 – Present
BYU METAL Labs, Provo, UT — Undergraduate Researcher 2022 – 2023
Qualtrics, Provo, UT — Research Intern, Text iQ June 2022 – August 2022
Pacific Northwest National Laboratory, Seattle, WA (*Remote*) — Research Intern June 2021 – August 2021

Honors & Awards

Valedictorian, College of Physical and Mathematical Sciences (BYU) 2023
Thomas S. Monson Presidential Scholarship, Brigham Young University 2017 – 2023
5x Dean's List, Brigham Young University 2017 – 2023
4x Society of American Military Engineers Scholarship, Seattle Post 2017 – 2023
National Merit Scholar 2017

Publications

2025

1. *Fully Heteroscedastic Count Regression with Deep Double Poisson Networks*
   Spencer Young, Porter Jenkins, Longchao Da, Jeffrey Dotson, and Hua Wei
   42nd International Conference on Machine Learning (ICML) 2025

2. *Assessing the Probabilistic Fit of Neural Regressors via Conditional Congruence*
   Spencer Young, Riley Sinema, Cole Edgren, Andrew Hall, Nathan Dong, and Porter Jenkins
   28th European Conference on Artifical Intelligence (ECAI) 2025

3. *Learnable Product-Price Attribution from Retail Shelf Images*
   Spencer Young, Stockton Jenkins, Luke Green, Kevin Miller, and Porter Jenkins
   32nd SIGKDD Conference on Knowledge Discovery and Data Mining [Work in progress] 2025

2024

4. *A General Method for Measuring Calibration of Probabilistic Neural Regressors*
   Spencer Young and Porter Jenkins
   3rd Workshop on Uncertainty Reasoning and Quantification in Decision Making (KDD) 2024

Repositories

delicious-ai/ddpn — *Training/evaluation code for various probabilistic neural regressors* 2025
delicious-ai/price-net — *Training/evaluation code for learnable product-price attribution in retail images* 2025
spencermyoung513/probcal — *Kernel-based conditional assessment of probabilistic models* 2024
delicious-ai/HungarianAlgorithm — *Optimized implementation of the Hungarian Algorithm in Swift* 2023

Invited Talks

2025

1. Starting a Career in ML Research – Brigham Young University (MATH 495R) (slides)

2024

2. Vector Databases in the Wild – Brigham Young University (CS 452) (slides)

2023

3. Deep Metric Learning – Brigham Young University (CS 180) (slides)

Professional Activities

Alumni Board Member, BYU Applied and Computational Mathematics	2023 – Present
President, Student Advisory Council, BYU Applied and Computational Mathematics	2021 – 2022

Extracurriculars

Aspen Chorale	2023 – Present
BYU Student Voice	2020 – 2021
BYU Men's Chorus	2017, 2020
Full-time Missionary, Church of Jesus Christ of Latter-day Saints	2017 – 2019
Math / Coding Tutor	2017 – Present