

# Spencer Young

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🐙 [spencermyoung513](#) • Last updated on May 19, 2025

My research interests lie at the intersection of probabilistic deep learning, uncertainty quantification, and optimal decision-making. I aim to build safe, intelligent systems that not only accelerate human progress, but do so with an honest and principled representation 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

### 2024

2. *Beyond Calibration: Assessing the Probabilistic Fit of Neural Regressors via Conditional Congruence*  
[Spencer Young](#), [Cole Edgren](#), [Riley Sinema](#), [Andrew Hall](#), [Nathan Dong](#), and [Porter Jenkins](#)  
28th European Conference on Artificial Intelligence (ECAI) [In Submission] 2024
3. *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  
[spencermyoung513/probcval](#) — 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