

Achievements

Ph.D: Expected May 2023

Statistics

*UT Southwestern Medical Artificial Intelligence & Automation lab
Division of Medical Physics*

B.S., B. Mus: 2015-2019

Statistical Science, Cello Performance

Minor: Mathematics

*Southern Methodist University
First Class Honours - GPA: 3.9*

Graduate Student Poster Award***

Southern Regional Council of Statistics

Dean's Award**

SMU Moody School of Graduate Studies

Poster Competition Award (2020* and 2021*)

Conference of Texas Statisticians

Press Interview

Dallas Voice: "Rise of the Machines?"

Summer Institute Scholarship

University of Washington Biostatistics

Statistical Science Department Award

Southern Methodist University

National Finalist

Canada Music Competition

Gold Medalist (Novice Women -52 kg)

NTX Summer Slam: Eastside Dojo

Silver Medalist (Novice Women -48 kg)

NTX Spring Slam: Eastside Dojo

Skills

Theory: Mathematical Statistics, Complex Analysis, PDEs, Measure Theory, Topology,
Methods of Theoretical Physics

Application: R, PYTHON, BASH, Reinforcement Learning, Monte Carlo, Tensorflow, PyTorch,
Writing, Time Management

Selected Publications

- [1] **MaryLena Bleile**, et al. **Towards the Optimal Combination of Radiotherapy and Immunotherapy Using Deep Reinforcement Learning^{*,**,***}**. *Medical Physics (online-only edition)*, 2022.
- [2] **MaryLena Bleile**, et al. Imputation of truncated tumor growth data via Bayesian mixed modelling. *Medical Physics (online-only edition)*, 2021.
- [3] David Hein, Weiye Deng, **MaryLena Bleile**, et. al. Racial and ethnic differences in genomic profiling of early-onset colorectal cancer. *Journal of the National Cancer Institute*, 2021.
- [4] Binwei Deng, ..., **MaryLena Bleile**,..., et. al. Quality control tests of the front-end optical link components for the ATLAS liquid argon calorimeter phase-1 upgrade. *Journal of Instrumentation*, 16(08):P08006, 2021.
- [5] MaryLena Bleile. **Youden's J and the Bi Error Method^{*}**. In *Intelligent Computing*, pages 196–209. Springer, 2021.
- [6] **MaryLena Bleile**, Bianca Luedeker, and Brandon Patterson. A Bayesian analysis of heavy metal subgenre prevalence in Northern Europe and the West. *Journal of Metal Music Studies*, 08(03), 2022.

Leadership & Professional Development

Workshop Organizer

38th International Conference of Machine Learning

Invitational Peer Reviewer

Various academic journals including Cancer Medicine

Secretary (2021-2022)

Mustang Martial Arts

Queer in AI Representative

Captial One Diversity Summit

Invitational Panelist

Association for Computing Machinery - AI division

Biologically and Functionally Guided Radiotherapy
Deep Learning Specialization
Reinforcement Learning Specialization

Medical Physics Continuing Education credit
deeplearning.ai
UAlberta