JOSHUA S. SPEAGLE (沈佳士)

shěn jiā shì

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MENTORSHIP

I am currently (co-)mentoring a total of **11 individuals** and have (co-)mentored a total of **14 individuals**.

Graduate

2. Steffani Grondin (Astronomy, Toronto)   Spring 2021-Present
    Identifying Tidally Stripped Cluster Members with Machine Learning and Corespray (with Prof. Jeremy Webb)
1. Aarya Patil (Astronomy, Toronto)   Winter 2021-Present
    Asteroseismology with Multitaper Methods (with Prof. Gwen Eadie)

Undergraduate

11. Charlie Hughes (Astronomy, Toronto)   Fall 2021-Present
    Photometric Metallicity with DECam and S5 (with Prof. Ting Li)
10. Eric Conenna (Astronomy, Toronto)   Fall 2021-Present
    High-Dimensional Analysis of APOGEE Data (with Prof. Jeremy Webb and Steffani Grondin)
9. Daniel Ding (Engineering, Toronto)   Fall 2021-Present
    Latent Space Decompositions of APOGEE Spectra (with Prof. Jo Bovy)
8. Ava Oveisi (CS/Physics, Toronto-Scarborough)   Summer 2020-Present
    Imaging Cosmic Dust with Machine Learning (with Prof. Kristen Menou)
7. Alicia Savelli (Math/Education/Physics, Brock)   Summer 2020-Present
    Milky Way Analogues in Cosmological Simulations (with Dr. Ted Mackereth)
6. Jeff Shen (Statistics/Astronomy/Math, Toronto)   Winter 2020-Present
    Disentangling Stellar Age Estimates from Galactic Chemodynamical Evolution (with Drs. Neige Frankel and Ted Mackereth)
    Estimating the Mass of the Milky Way with the H3 Survey (with Profs. Gwen Eadie, Norm Murray, and Dennis Zaritsky)
5. Mingxuan Teng (Math/CS, Toronto)   Fall 2020-Present
    Detecting and Characterizing Outliers in Machine Learning Applications
4. Zhiya Lou (Math/Statistics, Toronto)   Fall 2020-Present

Bayesian Model Selection with Globular Clusters (with Profs. Gwen Eadie and Jeremy Webb)

3.   Sina Babaei Zadeh (Physics & Astronomy, Western)   Summer 2020
Studying Galaxy Assembly Histories in Cosmological Simulations (with Drs. Ted Mackereth and Lamiya Mowla)

2.   Alan Tu (Physics, Harvard)   Summer 2020-Summer 2021
Kinematics of Young Stars in the Radcliffe Wave (with Dr. Catherine Zucker & Gus Beane)

1.   Kaustav Das (Physics, IIT Kanpur)   Summer 2019-Fall 2020
Constraining the Distance to the North Polar Spur (with Dr. Catherine Zucker)

High School

1.   Liam Pilarski (Millburn High School, NJ)   Fall 2021-Present
Estimating Galaxy Properties from Images with Probabilistic Deep Learning