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EDUCATION

2019 - present **Ph.D. Astronomy** **Yale University**

Advisor: Prof. Pieter van Dokkum

2015 - 2019 **B.S.A. Astronomy and Physics** **The University of Texas at Austin**

Cumulative unweighted GPA: 4.0

Polymathic Scholars Honors Thesis: *Falsifiability of the Multiverse*

PEER-REVIEWED PUBLICATIONS

Shen, Z., Diercke, A., Denker, C. 2018, *Astronomische Nachrichten*, **339**: 661, [arXiv: 1812.04404](#):
 ‘Calibration of full-disk He I 10830 Å filtergrams of the Chromospheric Telescope’

Cannon, J., **Shen, Z.**, McQuinn, K. B. W. et al., 2018, *ApJ*, **864**, L14, [arXiv: 1808.07108](#):
 ‘Delayed Stellar Mass Assembly in the Low Surface Brightness Dwarf Galaxy KDG215’

RESEARCH POSITIONS & FELLOWSHIPS

2019 [Gruber Science Fellowship](#)
2018 [Research Internship in Science and Engineering \(RISE\)](#),
[German Academic Exchange Service \(DAAD\)](#)

AWARDS & HONORS

2019 UT Austin [Deans Honored Graduate](#) with Research Distinction
2019 University Co-op George H. Mitchell Award Semifinalist
2019 UT Austin Department of Astronomy Outstanding Senior Award
2017, 2018 UT Austin College of Natural Sciences Distinguished College Scholar
2018 Kevin E. Underhill Memorial Endowed Presidential Scholarship
2018 First place, Physics Department Open House Poster Competition
 Title: ‘Can Starbursts Flatten Mass Distribution in the Centers of Dwarf Galaxies?’

RESEARCH EXPERIENCE

Star Formation History of KDG215, Dr. Kristen McQuinn Aug 2017 - Present
 – Construct color-magnitude diagrams of dwarf galaxies with resolved stellar populations
 – Model star formation history with CMD fitting
 – Manage the GitHub repository for the CMD fitting tool
 – Uncovered the extremely delayed star formation in KDG215

Leibniz Institute of Astrophysics Potsdam (AIP), Prof. Carsten Denker May 2018 - Aug 2018
 – Funded by DAAD RISE summer internship
 – Developed a data reduction pipeline for solar full-disk He I filtergrams
 – Calibrated full-disk Doppler velocities with co-temporal high resolution spectrograph data

CONFERENCE & POSTERS

Jan 2019 233rd AAS Meeting, Seattle, WA, Jan 10th 10 AM, Abstract ID 401.01,
'Calibration of full-disk HeI 10830 Å filtergrams of the Chromospheric Telescope'

Oct 2018 Texas Astronomy Undergraduate Research Symposium, UT Austin,
'Delayed Stellar Mass Assembly in the Dwarf Galaxy KDG 215'

Oct 2018 [Gulf Coast Undergraduate Research Symposium](#), Rice University, Houston,
'Delayed Stellar Mass Assembly in the Dwarf Galaxy KDG 215'

Jul 2018 DAAD RISE Meeting, Heidelberg, Germany,
'Stargazing at Noon: Observations of Solar Filaments'

Jan 2018 231st AAS Meeting, Washington DC

Mar 2017 Undergraduate Research Forum, UT Austin,
'Observing Eclipsing Binaries'

OBSERVING EXPERIENCE

Keck/LRIS (10m): 2 nights.

Palomar/TripleSpec (5m): 2 nights.

McDonald Observatory Harlan J. Smith Telescope / Tull Coudé Spectrograph (2.7m): 5 nights.

OUTREACH

Speaker, [Astronomy on Tap Austin](#)

May 2019

Secretary, [Astronomy Students Association](#)

2017

TEACHING EXPERIENCE

Responsible for conducting weekly review session, grading homework, holding office hours, and overseeing course communication in the following classes:

Yale University

ASTR 120: Galaxies and the Universe

Spring 2020

ASTR 110: Planets and Stars

Fall 2019

Responsible for lab supervision and safety, facilitating group projects and weekly discussion sessions in:

University of Texas at Austin

UGS 303: Originality in Arts and Sciences

Fall 2016, 2017

M 427J: Differential Equations with Linear Algebra Honors

Spring 2015