## **KATELYN STRINGER**

	stringkm@gmail.com	linkedin.com/in/stringkm/	github.com/stringkm/
	ronomy, Texas A&M University	y nd classification of stars in the Milky V	<b>Anticipated May 2020</b> Vay Galaxy
Applied Statistics Certificate, Texas A&M University Courses: Overview of Math Stats, Stat. Computing w/ R & Python, Databases & Comp. Tools in			Anticipated May 2020
<b>M.S. Astronomy, Texas A&amp;M University</b> GPR: 3.89/4.00 Honors: Diversity Fellow (2015-18), College of Science Leadership in Equity & Diversity Award 2018			
B.S. Physics, Math Minor, Middle Tennessee State University       May 2015         GPA: 3.87/4.00, Magna Cum Laude, Honors Thesis: "Photometric Calibration of AggieCam"       Honors: Buchanan Fellow (2010-15), Omicron Delta Kappa, Phi Kappa Phi Fellowship (2015), Sigma Pi Sigma			
EXPERIENCEGraduate Research, Texas A&M UniversityAugust 2016 - Present• Use Python, SQL, and R to identify specific signals from sparse and noisy time series data.• Used cluster computing environment to fit periodic function to data from ~714,000 stars in parallel.• Trained Random Forest to build a binary classifier for RR Lyrae stars, achieved 85% precision & 75% recall.• Provided weekly progress updates to multidisciplinary team.• Collaborated remotely with international researchers.• Prepared and documented data products for publication.			
<ul> <li>Instructor of Record: Observational Astronomy, Texas A&amp;M University</li> <li>Lecture on introductory astronomy topics and train students on telescope operations.</li> <li>Responsible for organizing and teaching course materials, assigning grades, and managing the classroom.</li> </ul>			
• Work	<b>: Equity &amp; Diversity Group, Te</b> with team to organize, advertise op and deliver presentations on 1	, and facilitate monthly discussions on	<b>October 2016 – Present</b> diversity, equity, and inclusion.

- Seek out and invite guest speakers.
- Cowrote funding proposal for 2016-17 Academic year and received requested funds.
- Won 2018 College of Science Leadership in Equity And Diversity (LEAD) Award.

## Movie Recommendation Project, Texas A&M University

- Built collaborative user-based filtering recommendation system powered by user ratings from MovieLens.
- Used Github to build project with team. Project link: <u>https://github.com/stringkm/movie-matchmaker</u>

## <u>SKILLS</u>

Data, 4+ years: time series, machine learning, classification, regression\*, simulations\*, MCMC\*, preparation, documentation

Programming, 4+ years: Python (bokeh\*, Jupyter, matplotlib, numpy, pandas, sklearn, seaborn), SQL\*, R\*, Bash, SLURM\*

Leadership, 5+ years: organizing and managing department diversity meetings & public stargazing events

**Communication**, 7+ years: deliver weekly research reports to advisors, teach weekly lectures, 4 oral presentations at national conferences, publication in collaboration review, host monthly department diversity discussions, public outreach

## \* Limited exposure

March – April 2018