

Nick Choksi

Curriculum Vitae

✉ nchoksi@berkeley.edu

Education

- 2024 (expected) **Ph.D, Astrophysics**, *University of California, Berkeley*.
Advisor: Eugene Chiang
- 8/19 **M.A, Astrophysics**, *University of California, Berkeley*.
- 5/19 **B.A, Physics; B.A, Astrophysics**, *University of California, Berkeley*.

Research interests

Dynamics, planet formation, chondrule formation, star clusters

Publications

1. **Choksi**, Chiang, Connolly, Gainsforth, and Westphal “[Chondrules from high-velocity collisions: thermal histories and the agglomeration problem](#),” MNRAS accepted.
2. **Choksi** & Chiang, “[Sub-Neptune Formation: The View from Resonant Planets](#),” MNRAS 495, 4192 (2020), arXiv 2003.03388.
3. **Choksi** & Gnedin, “[Origins of scaling relations of globular cluster systems](#),” MNRAS 488, 5409 (2019), arXiv 1905.05199.
4. **Choksi** & Gnedin, “[Formation of Globular Cluster Systems II: Impact of the cutoff of the cluster initial mass function](#),” MNRAS 486, 331 (2019), arXiv 1810.01888.
5. **Choksi**, Volonteri, Colpi, Gnedin, and Li, “[The star clusters that make black hole binaries across cosmic time](#),” ApJ 873, 100 (2019), arXiv 1809.01164.
6. El-Badry, Quataert, Weisz, **Choksi**, and Boylan-Kolchin, “[The formation and hierarchical assembly of globular cluster populations](#),” MNRAS 482, 4528 (2018), arXiv 1805.03652.
7. **Choksi**, Gnedin, and Li, “[Formation of globular cluster systems: from dwarf galaxies to giants](#),” MNRAS 480, 2343 (2018), arXiv 1801.03515.
8. **Choksi**, Behroozi, Volonteri, Schneider, Ma, Silk, and Moster, “[Recoiling supermassive black hole escape velocities from dark matter halos](#),” MNRAS 472, 1526 (2017), arXiv 1707.06220.

Honors and Awards

- 2020 Esper Larsen Jr. Grant, \$20,000
- 2019-2024 NSF Graduate Research Fellowship
- 2019 Student commencement speaker, UC Berkeley Astrophysics
- 2019 Finalist, Hertz Fellowship
- 2018 Isidore Pomerantz Award, UC Berkeley Physics
- 2017 Balzan Center for Cosmological Studies Fellowship

Scientific talks

1. *Sub-Neptune Formation: The View from Resonant Planets*, Conference: Exoplanet Demographics, 2020
2. *Sub-Neptune Formation: The View from Resonant Planets*, Conference: Bay Area Exoplanets, 2020
3. *Star cluster formation across cosmic time*, Conference: Local Group Workshop, 2019
4. *Are globular clusters simple after all?*, Cambridge, Belokurov group meeting, 2019

5. *Were field star formation and globular cluster formation co-eval?*, **Invited talk**, Conference: Formation of stars and massive clusters in dwarf galaxies over cosmic time, Lorentz Center, Leiden, 2019
6. *Formation of globular cluster systems*, Conference: Santa Cruz Galaxy formation workshop, 2018
7. *Kicking black holes at high redshift*, Conference: Massive black holes in evolving galaxies, Institut d'Astrophysique, Paris, 2018
8. *The star clusters that make black hole binaries across cosmic time*, UC Berkeley, 2018
9. *Formation of globular cluster systems*, Conference: Formation of globular clusters at high and low- z , Sexten CfA, 2018
10. *Kicking black holes at high redshift*, University of Chicago, Kravtsov group meeting, 2017

Public talks

11. *The first supermassive black holes in the universe*, Berkeley Public Library, 2020
12. *Globular clusters: fossils of ancient star formation*, Berkeley Compass Lecture, 2019
13. *The first supermassive black holes in the universe*, Berkeley Public Library, 2019

Service

2019 - Current **Referee**, MNRAS.

2019 - Current **Mentor**, Jesus Martinez, Mine Gocken (UCB undergrads).

2017 - 2019 **Organizer**, AstroJustice, UC Berkeley.

Coordinate meetings and facilitate conversations regarding equity in astronomy and academia.

Teaching

Spring 2020, **Graduate student instructor**, *Astrophysics II*, UC Berkeley.
2021

Fall 2019 **Graduate student instructor**, *Astrophysics I*, UC Berkeley.

Fall 2017, **Undergraduate student instructor**, *Astronomy for non-majors*, UC Berkeley.
2018