

Erin Kado-Fong

PH.D. CANDIDATE, PRINCETON UNIVERSITY DEPARTMENT OF ASTROPHYSICAL SCIENCES

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Education

PRINCETON UNIVERSITY

2017 - 2022, expected	Ph.D.
2019	M.S.
Advisor: Prof. Jenny Greene	

TUFTS UNIVERSITY

2017	B.A.: Astrophysics, summa cum laude minor: Economics
Advisor: Prof. Danilo Marchesini (astrophysics) Prof. David Garman (economics)	

Research Positions

SMITHSONIAN ASTROPHYSICAL OBSERVATORY REU

2015
Advisors: Dr. Peter Williams, Prof. Edo Berger

Selected Fellowships & Awards

- **CCAPP Price Prize**, Ohio State Center for Cosmology and Astroparticle Physics, 2021
Two awarded annually in cosmology and astroparticle physics
 - **Porter Ogden Jacobus Fellowship**, 2021-22
Princeton University Honorific Fellowship
One awarded in natural/physical sciences annually (four across all disciplines)
 - Tufts Summer Scholar, 2016
 - Goldwater Fellowship, 2015-2017
 - Astronaut Scholarship, 2015-2017
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Accepted Observing Proposals

- DECam: 62 nights for Merian Survey (Co-I)
- VLA: 12 hr (PI)
- Magellan 6.5-m: 1 night (PI), 6.5 nights (Co-I)

Selected Talks

Colloquia

- Yale University (2021/10)
- Center for Computational Astrophysics, Flatiron Institute (2021/10)

Seminars and Conferences

- (scheduled) The Ohio State Price Prize Seminar (2021/12)
- (scheduled) University of Pennsylvania Astronomy Seminar (2021/12)
- NYU Informal Seminar (2021/11)
- University of Arizona Galaxy Group Seminar (2021/09)
- Stanford University Tea Talks (2021/09)
- UC Santa Cruz FLASH Seminar (2021/09)
- Tufts Astronomy Seminar (2021/04)
- Local “Local Group” Group Meeting (2020/12)
- Subaru 20th Anniversary Conference (2019/11)
- Light in the Suburbs: Structure and Chemodynamics of Galaxy Halos (2019/06)
- UC Santa Cruz Galaxy Workshop (2018/08)
- Stellar Halos Across the Cosmos (2018/07)
- 227th Meeting of the American Astronomical Society (poster, 2016/01)

Teaching, Outreach, & Departmental Service

Students Advised

Majid Mohammad (Colorado School of Mines, Princeton REU)
Now graduate student at UC Santa Barbara

Service

Reviewer, Nature Astronomy

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Committee member, Princeton astrophysics committees on equity & inclusion
2020-2021

Teaching assistant, Planets in the Universe (AST205)
Fall 2018

Outreach

Mentor, Astrophysics G1 Mentorship Program
2021 - present

Mentor, National Astronomy Consortium (Princeton REU)
Summer 2020

Organizer, Peyton Public Observatory
2019 - present

Volunteer observer, Peyton Public Observatory
2017 - present

Publications

[17 total: 7+1 first author, 7+2 co-author]
(published + submitted)

Submitted Publications

- Li, Jiaxuan; Huang, Song; Leauthaud, Moustakas, John; Danieli, Shany; Greene, Jenny E.; Adrila, Felipe, **Kado-Fong, Erin**; Lokhorst, Deborah; Lupton, Robert; Price, Paul
Reaching for the Edge I: Probing the Outskirts of Massive Galaxies with HSC, DECaLS, SDSS, and Dragonfly
[\[2021/09, arXiv:2111.03557 \]](#)
- **Kado-Fong, Erin**; Sanderson, Robyn E.; Greene, Jenny E.; Cunningham, Emily C.; Wheeler, Coral; Chan, T.K.; El-Badry, Kareem; Hopkins, Philip F.; Wetzel, Andrew; Boylan-Kolchin, Michael; Faucher-Giguère, Claude-André; Huang, Song; Quataert, Eliot; Starkenburg, Tjitske
The In-Situ Origins of Dwarf Stellar Outskirts in FIRE-2
[\[2021/09, arXiv:2109.05034 \]](#)
- Carlsten, Scott G.; Greene, Jenny E.; Greco, Johnny P.; Beaton, Rachael L.; **Kado-Fong, Erin**
ELVES I: Structures of Dwarf Satellites of MW-like Galaxies; Morphology, Scaling Relations, and Intrinsic Shapes
[\[2021/05, arXiv:2105.03435 \]](#)

Refereed Publications

1. **Kado-Fong, Erin**; Petrescu, Mihai; Mohammad, Majid; Greco, Johnny; Greene, Jenny E.; Adams, Elizabeth A. K.; Huang, Song; Munshi, Ferah; Tanoglidis, Dimitrios; Van Nest, Jordan
The Intrinsic Shapes of Low Surface Brightness Galaxies: a Discriminant of LSBG Formation Mechanisms
[\[2021/10, The Astrophysical Journal, Volume 920, Issue 2, id.72, 15 pp. \]](#)
2. Nedkova, Kalina; Häußler, Boris; Marchesini, Danilo; Dimauro, Paola; Brammer, Gabriel; Eigenthaler, Paul; Feinstein, Adina D.; Ferguson, Henry C.; Huertas-Company, Marc; Johnston, Evelyn J.; **Kado-Fong, Erin**; Kartaltepe, Jeyhan S.; Labbé, Ivo; Lange-Vagle, Daniel; Martis, Nicholas S.; McGrath, Elizabeth J.; Muzzin, Adam; Oesch, Pascal; Ordenes-Briceño, Yasna; Puzia, Thomas; Shipley, Heath V.; Simmons, Brooke D.; Skelton, Rosalind E.; Stefanon, Mauro; van der Wel, Arjen; Whitaker, Katherine E.
Extending the evolution of the stellar mass – size relation at $z \leq 2$ to low stellar mass galaxies from HFF and CANDELS
[\[2021/06, Monthly Notices of the Royal Astronomical Society, Advance Access \]](#)
3. Forrest, Ben; Marsan, Z. Cemile; Annunziatella, Marianna; Wilson, Gillian; Muzzin, Adam; Marchesini, Danilo; Cooper, M. C.; Chan, Jeffrey C. C.; McConachie, Ian; Gomez, Percy;

Kado-Fong, Erin; Barbera, Francesco La; Lange-Vagle, Daniel; Nantais, Julie; Nonino, Mario; Saracco, Paolo; Stefanon, Mauro; van der Burg, Remco F.J.

The Massive Ancient Galaxies at $z > 3$ NEar-infrared (MAGAZ3NE) Survey:
Confirmation of Extremely Rapid Star Formation and Quenching Timescales for Massive Galaxies in the Early Universe

[[2020/11, The Astrophysical Journal, Volume 903, Issue 1, id.47, 24 pp. \]](#)

4. **Kado-Fong, Erin;** Greene, Jenny E.; Huang, Song; Beaton, Rachael; Goulding, Andy D.; Komiyama, Yutaka

Tracing the Intrinsic Shapes of Dwarf Galaxies Out to Four Effective Radii: Clues to Low-mass Stellar Halo Formation

[[2020/09, The Astrophysical Journal, Volume 900, Issue 2, id.163, 19 pp. \]](#)

5. **Kado-Fong, Erin;** Kim, Jeong-Gyu; Ostriker, Eve C.; Kim, Chang-goo

Diffuse Ionized Gas in Simulations of Multiphase, Star-forming Galactic Disks

[[2020/07, The Astrophysical Journal, Volume 897, Issue 2, id.143 \]](#)

6. **Kado-Fong, Erin;** Greene, Jenny E.; Greco, Johnny P.; Beaton, Rachael; Goulding, Andy D.; Johnson, Sean D.; Komiyama, Yutaka

Star Formation in Isolated Dwarf Galaxies Hosting Tidal Debris: Extending the Dwarf-Dwarf Merger Sequence

[[2020/03, The Astronomical Journal, Volume 159, Issue 3, id.103, 15 pp. \(2020\) \]](#)

7. Forrest, Ben; Annunziatella, Marianna; Wilson, Gillian; Marchesini, Danilo; Muzzin, Adam; Cooper, M. C.; Marsan, Z. Cemile; McConachie, Ian; Chan, Jeffrey C. C.; Gomez, Percy; **Kado-Fong, Erin;** L Barbera, Francesco; Labbé, Ivo; Lange-Vagle, Daniel; Nantais, Julie; Nonino, Mario; Peña, Theodore; Saracco, Paolo; Stefanon, Mauro; van der Burg, Remco F. J.

An Extremely Massive Quiescent Galaxy at $z = 3.493$: Evidence of Insufficiently Rapid Quenching Mechanisms in Theoretical Models

[[2020/02, The Astrophysical Journal Letters, Volume 890, Issue 1, id.L1, 8 pp. \(2020\) \]](#)

8. Annunziatella, Marianna; Marchesini, Danilo; Stefanon, Mauro; Muzzin, Adam; Lange-Vagle, Daniel; Cybulski, Ryan; Labbe, Ivo; **Kado-Fong, Erin;** Bezanson, Rachel; Brammer, Gabriel; Herrera, David; Lundgren, Britt; Marsan, Z. Cemile; Nonino, Mario; Rudnick, Gregory; Saracco, Paolo; Tomer, Tal; Valdes, Frank; van der Burg, Remco F.J.; van Dokkum, Pieter Wake, David; Whitaker, Katherine E.

Complete IRAC Mapping of the CFHTLS-DEEP, MUSYC, and NMBS-II Fields

[[2018/12, Publications of the Astronomical Society of the Pacific, Volume 130, Issue 994, pp. 124501 \(2018\) \]](#)

9. **Kado-Fong, Erin;** Greene, Jenny E.; Hendel, David; Price-Whelan, Adrian M.; Greco, Johnny P.; Huang, Song; Johnston, Kathryn V.; Komiyama, Yutaka; Lee, Chien-Hsiu; Lust, Nate B.; Strauss, Michael A.; Tanaka, Masayuki

Tidal Features at $0.05 < z < 0.45$ in the Hyper Suprime-Cam Subaru Strategic Program: Properties and Formation Channels

[[2018/10, The Astrophysical Journal, Volume 866, Issue 2, article id. 103, 21 pp. \(2018\)](#)]

10. Shipley, Heath V.; Lange-Vagle, Daniel; Marchesini, Danilo; Brammer, Gabriel B.; Ferrarese, Laura; Stefanon, Mauro; **Kado-Fong, Erin**; Whitaker, Katherine E.; Oesch, Pascal A.; Feinstein, Adina D.; Labbé, Ivo; Lundgren, Britt; Martis, Nicholas; Muzzin, Adam; Nedkova, Kalina; Skelton, Rosalind; van der Wel, Arjen

HFF-DeepSpace Photometric Catalogs of the 12 Hubble Frontier Fields, Clusters, and Parallels: Photometry, Photometric Redshifts, and Stellar Masses

[[2018/03, The Astrophysical Journal Supplement Series, Volume 235, Issue 1, article id. 14, 40 pp. \(2018\)](#)]

11. Marsan, Z. Cemile; Marchesini, Danilo; Brammer, Gabriel B.; Geier, Stefan; **Kado-Fong, Erin**; Labbé, Ivo; Muzzin, Adam; Stefanon, Mauro

A Spectroscopic Follow-up Program of Very Massive Galaxies at $3 < z < 4$: Confirmation of Spectroscopic Redshifts, and a High Fraction of Powerful AGNs

[[2017/06, The Astrophysical Journal, Volume 842, Issue 1, article id. 21, 18 pp. \(2017\)](#)]

12. Pope, Alexandra; Montaña, Alfredo; Battisti, Andrew; Limousin, Marceau; Marchesini, Danilo; Wilson, Grant W.; Alberts, Stacey; Aretxaga, Itziar; Avila-Reese, Vladimir; Ramón Bermejo-Clement, José; Brammer, Gabriel; Bravo-Alfaro, Hector; Calzetti, Daniela; Chary, Ranga-Ram; Cybulski, Ryan; Giavalisco, Mauro; Hughes, David; **Kado-Fong, Erin**; et al.

Early Science with the Large Millimeter Telescope: Detection of Dust Emission in Multiple Images of a Normal Galaxy at $z > 4$ Lensed by a Frontier Fields Cluster

[[2017/04, The Astrophysical Journal, Volume 838, Issue 2, article id. 137, 9 pp. \(2017\)](#)]

13. **Kado-Fong, Erin**; Marchesini, Danilo; Marsan, Z. Cemile; Muzzin, Adam; Quadri, Ryan; Brammer, Gabriel; Bezanson, Rachel; Labbé, Ivo; Lundgren, Britt; Rudnick, Gregory; Stefanon, Mauro; Tal, Tomer; Wake, David; Williams, Rik; Whitaker, Katherine; van Dokkum, Pieter

Near-infrared Spectroscopy of Five Ultra-massive Galaxies at $1.7 < z < 2.7$

[[2017/03, The Astrophysical Journal, Volume 838, Issue 1, article id. 57, 15 pp. \(2017\)](#)]

14. **Kado-Fong, Erin**; Williams, Peter K. G.; Mann, Andrew W.; Berger, Edo; Burgett, William S.; Chambers, Kenneth C.; Kaiser, Nicholas; Kudritzki, Rolf-Peter; Magnier, Eugene A.; Rest, Armin; Wainscoat, Richard J.; Waters, Christopher

M Dwarf Activity in the Pan-STARRS1 Medium-Deep Survey: First Catalog and Rotation Periods

[[2016/12, The Astrophysical Journal, Volume 833, Issue 2, article id. 281, 19 pp. \(2016\)](#)]