

Employment

2020– present **Postdoctoral Fellow**, Kavli Institute for Cosmological Physics - University of Chicago, USA.

Education

- 2015–2020 **Ph.D in Physics & Astronomy**, University of Pennsylvania, USA.
Thesis: *Weak Lensing and Cosmology in the Dark Energy Survey*. Advisor: Prof. Dr. Bhuvnesh Jain
- 2013–2015 **M.S. in Physics**, Universidade de São Paulo, Brazil.
Thesis: *Power Spectrum Estimators in Galaxy Surveys*. Advisor: Prof. Dr. Raul Abramo
- 2009–2013 **B.S. in Physics**, Universidade Federal do Rio Grande do Sul, Brazil.

Fellowships & Awards

- 2020– present **KICP Fellowship**, Kavli Institute for Cosmological Physics - University of Chicago.
- 2020 **Dark Energy Survey Builder**.
Two years of full-time equivalent work on infrastructure
- Fall 2017 **Dark Energy Survey Early Career Scientist**.
Grant for participating in the Fall 2017 and Summer 2018 DES Collaboration Meetings.
- 2013–2015 **FAPESP Scholarship**, Universidade de São Paulo, São Paulo, Brazil.
São Paulo Research Funding Agency Scholarship

Selected Publications

For complete up-to-date list (ADS library): <https://lfsecco.com/publications>.

- [1] **L. F. Secco**, T. Karwal, W. Hu, E. Krause (2022).
“The Role of the Hubble Scale in the Weak Lensing vs. CMB Tension” arXiv:2209.12997
- [2] **L. F. Secco**, M. Jarvis, B. Jain, C. Chang et al. (2022).
“Dark Energy Survey Year 3 Results: Three-Point Shear Correlations and Mass Aperture Moments” PRD 105, 103537
- [3] K. Hoffmann, **L. F. Secco**, J. Blazek, M. Crocce et al. (2022).
“Modeling Intrinsic Galaxy Alignment in the MICE Simulation” arXiv:2206.14219 (submitted to PRD)
- [4] **L. F. Secco**, S. Samuroff, E. Krause, B. Jain et al. (2021).
“Dark Energy Survey Year 3 Results: Cosmology from Cosmic Shear and Robustness to Modeling Uncertainty” PRD 105, 023515
- [5] E. Krause, X. Fang, S. Pandey, **L. F. Secco** et al. (2021).
“Dark Energy Survey Year 3 Results: Multi-Probe Modeling Strategy and Validation” arXiv:2105.13548 (submitted to PRD)
- [6] **L. F. Secco**, A. Farah, B. Jain, S. Adhikari, A. Banerjee and N. Dalal (2018).
“Probing Self-interacting Dark Matter with Disk Galaxies in Cluster Environments” ApJ 860 no.1, 32
- [7] L. R. Abramo, **L. F. Secco** and A. Loureiro (2016).
“Fourier analysis of multitracer cosmological surveys” MNRAS 455, 3871–3889

Selected Presentations & Conferences

- Jun 2022 **Kavli IPMU at Tokyo University**, *APEC Seminar*, Tokyo, Japan.
"Weak Lensing in the Upcoming Era of Surveys"
- Jun 2022 **Yukawa Institute at Kyoto University**, *Gravity Workshop*, Kyoto, Japan.
"Cosmological Constraints from the DES"
- Jul 2021 **CEA Paris-Saclay**, *CosmoStat Q&A*, Paris, FR (virtual).
"The DES Y3 Cosmic Shear Results"
- Jun 2021 **Max Planck Institute for Astrophysics**, *Cosmology Seminar*, Garching, DE (virtual).
"The DES Y3 Cosmic Shear Results"
- Jun 2021 **University of São Paulo**, *Cosmology Seminar*, São Paulo, BR (virtual).
"The DES Y3 Cosmic Shear Results"
- Jan 2020 **Columbia University**, *Astronomy Seminar*, New York, NY.
"Weak Lensing Cosmology with 2pt and 3pt Correlations"
- Nov 2019 **University College London**, *Cosmology Seminar*, London, UK.
"Weak Lensing Cosmology with 2pt and 3pt Correlations"
- Oct 2019 **Stanford University**, *Cosmology Seminar*, Stanford, CA.
"Challenges for the Upcoming DES-Y3 Cosmic Shear Cosmology"
- Oct 2019 **University of California at Berkeley**, *BCCP/Cosmology Seminar*, Berkeley, CA.
"Challenges for the Upcoming DES-Y3 Cosmic Shear Cosmology"

Service & Mentoring

- 2021–2022 **KICP Seminar Organizer**, *University of Chicago*, Chicago, IL.
Organized weekly seminars for the KICP and Astronomy communities at UChicago.
- 2018–2022 **DES Cosmic Shear Convener**, *Dark Energy Survey Collaboration*.
Co-convener of the cosmic shear analysis group in DES. Organized telecons, meetings and co-led the cosmic shear analysis.
- 2018–2019 **DES Early Career Scientists**, *Dark Energy Survey Collaboration*.
Contributed to the group within DES that organizes career panels, collaboration meetings and helps promote visibility for early career graduate students and postdocs.
- 2015–2017 **Teaching & Mentoring**, *University of Pennsylvania*, Philadelphia, PA.
Taught and graded PHYS101 labs for a total of 80 undergraduate students at Penn over 2 semesters. Mentored Penn undergraduate student Amanda Farah in a project that culminated in a publication on self-interacting dark matter (see *Selected Publications*)
- Spring 2017 **Volunteer Physics and Maths Teacher**, *Legion of Good Will*, New York, NY.
Taught a series of lectures on high school level physics and maths to adult Brazilian immigrants living in NY & NJ who did not possess a Brazilian secondary education degree (total of 20h).
- 2016–2021 **Public Outreach**.
Talks given to general audiences on numerous occasions, including the Sulzer Public Library (Chicago IL) and the Philadelphia Science Festival (Philadelphia PA).

Professional References

- Dr. Bhuvnesh Jain**, *University of Pennsylvania*, Philadelphia, PA (USA).
Dr. Elisabeth Krause, *University of Arizona*, Tucson, AZ (USA).
Dr. Scott Dodelson, *Carnegie Mellon University*, Pittsburgh, PA (USA).
Dr. Chihway Chang, *University of Chicago*, Chicago, IL (USA).
Dr. Dragan Huterer, *University of Michigan*, Ann Arbor, MI (USA).