

Louis González

PHD STUDENT · DEPARTMENT OF PHYSICS AND ASTRONOMY

University of Pittsburgh, 200 Allen Hall, 3941 O'Hara St, Pittsburgh, PA 15260

✉ gonzalezlouis [at] pitt.edu | 🏠 gonzalezlouis [dot] github.io

Education

University of Pittsburgh

Pittsburgh, PA, USA 15260

PHD PHYSICS

2019 - present

- Advisor: Dr. Andrew Mugler
- Dietrich School of Arts and Sciences Pre-Doctoral Fellow
- Leo B. and Teresa Y. Wegemer Endowed STEM Fellow

University of Pittsburgh

Pittsburgh, PA, USA 15260

MS PHYSICS

2019 - 2021

- Advisor: Dr. Andrew Mugler
- Dietrich School of Arts and Sciences Pre-Doctoral Fellow

Georgia State University

Atlanta, GA, USA 30303

BS ASTROPHYSICS

2014 - 2018

- Undergrad research advisor: Dr. Misty Bentz (Georgia State) and Dr. Loris Magnani (University of Georgia)

Professional Experience

2021-present

Graduate Research Assistant, University of Pittsburgh

2020 - 2021

Graduate Teaching Assistant, Dept. of Physics and Astronomy, University of Pittsburgh

Teaching Assistant – Undergraduate Laboratory Physics, Dept. of Physics and Astronomy, Georgia State University

2018-2019

2018

MRSEC Summer Research Assistant, Dept. of Astronomy and Astrophysics, University of Chicago

2015-2019

Undergraduate Research Assistant, Dept. of Physics and Astronomy, University of Georgia

2016-2019

Undergraduate Research Assistant, Dept. of Physics and Astronomy, Georgia State University

Publications

PUBLISHED

González, L. & Mugler, A. (2023). Collective effects in flow-driven cell migration. *Physical Review E*, *Accepted*.

Vennettilli, M., **González, L.**, Hilgert, N., & Mugler, A. (2022). Autologous chemotaxis at high cell density. *Physical Review E*, 106(2), 024413.

Gonzalez, L., Bentz, M. C., & Paredes, L. (2019). V-Band Photometric Monitoring of 852 Wladilena. *Minor Planet Bulletin*, 46(1), 8-9.

Bentz, M. C., Abbot, C., Agudelo, S., Dassing, S., Flynn, W., Gibbs, A., ... & Yep, A. (2018). Filtered Photometric Monitoring of 1591 Baize. *Minor Planet Bulletin*, 45(4), 311-312.

Smith, A. J., Magnani, L., **Gonzalez, L.**, & Robishaw, T. (2018). OH 18 cm observations of the intermediate-velocity molecular cloud G211+ 63. *Monthly Notices of the Royal Astronomical Society*, 480(3), 3503-3510.

Awards, Fellowships, & Grants

- 2019 **Dietrich School of Arts and Sciences Pre-Doctoral Fellowship**, University of Pittsburgh
- 2020 **Thomas-Lain Fund Scholarship**, University of Pittsburgh, Department of Physics and Astronomy
- 2022 **Carl Storm Underrepresented Minority (CSURM) Fellowship**, Gordon Research Conference
- 2023 **APS DBIO Travel Award**, American Physical Society
- 2023 **Leo B. and Teresa Y. Wegemer Endowed STEM Fellowship**, Dietrich School of Arts and Sciences, University of Pittsburgh
- 2023 **SB3C Student Paper and Presentation PhD Competition – 1st place**, SB3 Conference, Vail, Colorado
- 2023 **SACNAS NDiSTEM Travel Scholarship**, SACNAS NDiSTEM Conference, Portland, Oregon

Talks and Poster Presentations

INVITED TALKS

- October 2017. *ASTRO 4100 Presentation, Invited Talk*. CURE Showcase - Georgia State University, Atlanta, Georgia.
- June 2022. *Spotlight Talk*. 2022 QBIO Conference, Colorado State University, Fort Collins, Colorado.
- March 2023. *Contributed Talk*. 2023 APS March Meeting, Las Vegas, Nevada.
- June 2023. *Invited Talk*. SB3C Student Paper Competition – 1st Place. 2023 SB3 Conference, Vail, Colorado.
- July 2023. *Contributed Talk*. 2023 QBIO Conference, Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, Shenzhen, China.
- October 2023. *Contributed Talk*. 2023 SACNAS NDiSTEM Conference, Portland, Oregon.

POSTER PRESENTATIONS

- González, L.** 2017. Poster presentation at the Georgia Regional Astronomer's Meeting (GRAM). University of Georgia. Athens, Georgia
- González, L.** 2022. Autologous Chemotaxis at High Cell Density. Poster presentation at the 2022 QBio Conference. Colorado State University, Fort Collins, Colorado.
- González, L.** 2023. Autologous Chemotaxis at High Cell Density. Poster presentation at the 2023 Gordon Research Conference – Stochastic Physics in Biology. Ventura, California.

Teaching Experience

Spring -		
Summer	Algebra-based undergraduate introductory physics , Teaching Assistant	Georgia State University
2019		
Spring -		
Summer	Calculus-based undergraduate introductory physics , Teaching Assistant	Georgia State University
2019		
Fall 2020 -		
Spring 2021	Algebra-based undergraduate introductory physics lab , Teaching Assistant	University of Pittsburgh
Fall 2020 -		
Spring 2021	Calculus-based undergraduate introductory physics lab , Teaching Assistant	University of Pittsburgh