

# Louis González

PHD STUDENT · DEPARTMENT OF PHYSICS AND ASTRONOMY

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## Education

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### 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

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2021-  
present

**Graduate Research Assistant**, University of Pittsburgh

2020 - 2021

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

2018-2019

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

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

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### 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

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- 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

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### 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 Reserach Conference – Stochastic Physics in Biology. Ventura, California.

## Teaching Experience

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