

# Gabriel Lauffer Ramos

M.A. STUDENT

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## Education

### Universidade Federal do Rio Grande do Sul - UFRGS

Porto Alegre, Brazil

M.A IN PHYSICS

2016 - PRESENT

- Concentration: Astrophysics

### Universidade Federal do Rio Grande - FURG

Rio Grande, Brazil

B.S IN PHYSICS

2016

- Science Without Borders scholarship to study at *State University of New York at Oswego*, NY, USA, from August 2013 to December 2014.

## Experience

### Graduate Research

Porto Alegre, Brazil

UNIVERSIDADE FEDERAL DO RIO GRANDE DO SUL

Aug. 2016 - Present

- Numerical simulations of evolution of massive white dwarfs.
- Advisors: Dra. Alejandra D. Romero and Dr. S.O. Kepler

### LaTeX Minicourse

Rio Grande, Brazil

UNIVERSIDADE FEDERAL DO RIO GRANDE

May. 2015

- Lecturer on a 12 hours LaTeX minicourse.
- Introduction to the LaTeX language.

### Undergraduate Research

Rio Grande, Brazil

UNIVERSIDADE FEDERAL DO RIO GRANDE

Mar. 2015 - Jul. 2016

- Final Project to obtain the title of B.S in Physics.
- The influence of noisy and frequency sample on variable stars data on the result of its period of pulsation
- Advisor: Dr. Fabricio Ferrari

### Undergraduate Tutor

Rio Grande, Brazil

UNIVERSIDADE FEDERAL DO RIO GRANDE

Apr. 2015 - Jul. 2016

- Tutoring sessions for students enrolled at Undergraduate Physics classes.

### Undergraduate Research

Oswego, U.S.A

STATE UNIVERSITY OF NEW YORK AT OSWEGO

Aug. 2014 - Dec. 2014

- Calculated periods of pulsation of variable stars.
- Contributed to the development of the Plotypus software, a Python lybrary for manipulating and plotting stellar lightcurves.
- Advisor: Dr. Shashi M. Kambur

### Research Assistanship

Oswego, U.S.A

STATE UNIVERSITY OF NEW YORK AT OSWEGO

May. 2014 - Aug. 2014

- Developed a programming code to calculate periods of pulsation from variable stars data.
- Code developed in Python3 using the Conditional Shannon Entropy method.
- Research assitanship performed as demanded by the Science Without Borders scholarship.

### Undergraduate Research

Rio Grande, Brazil

UNIVERSIDADE FEDERAL DO RIO GRANDE

Aug. 2012 - Jul. 2013

- Teoretical calculations of magnetic phase transition
- Developed a Fortran code to calculate the 2D-Ising model using Monte Carlo simulation.
- Advisor: Dr. Matheus J. Lazo

## Presentation

### SELECTED TALKS

2015	<b>Lauffer R., G; Ferrari, F.</b> , Determinação de Pulsação Estelar Através da Entropia de Shannon Condicional - XXIV Mostra de Produção Universitária	<i>Rio Grande, Brazil</i>
2014	<b>Lauffer R., G.</b> , Kepler Laws: Exoplanetary Orbits and a Comet Study - Quest Day.	<i>Oswego, U.S.A</i>
2012	<b>Lauffer R., G; Lazo, M. J.</b> , Modelos de Spin Clássicos e Quânticos - XI Mostra de Produção Universitária	<i>Rio Grande, Brazil</i>

## POSTER

2015	<b>Lauffer R., G; Ferrari, F; Kanbur, S. M.</b> , Determinação de Pulsação Estelar Através da Entropia de Shannon Condicional - I Escola de Física do Extremo Sul	<i>Rio Grande, Brazil</i>
2015	<b>Lauffer R., G; Ferrari, F; Kanbur, S. M.</b> , Determinação de Pulsação Estelar Através da Entropia de Shannon Condicional - VIII Semana Acadêmica da Física	<i>Rio Grande, Brazil</i>
2014	<b>Lauffer R., G; Bellinger, E; Kanbur, S. M.</b> , Conditional Entropy Method to Detect Periods on Variable Stars - Rochester Academy of Science 41st Annual Fall Scientific Paper Session	<i>Brockport, U.S.A</i>
2014	<b>Lauffer R., G; Bellinger, E; Kanbur, S. M.</b> , Conditional Entropy Method to Detect Period on Variable Stars - Summer Scholar & Global Lab Posters	<i>Oswego, U.S.A</i>

## PUBLIC OUTREACH

2016	<b>Orientation for Physics Freshmen students</b> , Presented the physics department of the Universidade Federal do Rio Grande to new students	<i>Rio Grande, Brasil</i>
2015	<b>Roudtable Interview</b> , Interview about studying abroad	<i>Rio Grande, Brasil</i>

## Skills

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### Programming

- Python, LaTeX, Markdown, Git, Bash, C++, Fortran.

### Languages

- English - advanced (TOEFL ITP score 630)
- Portuguese - native language
- Spanish - Intermediate

## References

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### S.O. Kepler

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### Fabricio Ferrari

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### Shashi M. Kanbur

PROFESSOR - STATE UNIVERSITY OF NEW YORK AT OSWEGO

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