

Miguel Eduardo Rocha Gaso

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Citizenship: Mexican/Spanish
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Education

Graduate Student at the [University of California, Irvine](#). Currently coursing the Ph.D program of the [Physics and Astronomy Department](#).

Present

B.S., Astrophysics (Honors), [University of California, Santa Cruz, CA](#)

2002 – 2006

A.A., Liberal Arts and Sciences, [Cabrillo College, Aptos, CA](#)

2002 – 2004

Summer Schools

[Prospects in Theoretical Physics Program in Computational Astrophysics](#), Institute for Advanced Study, Princeton, USA. Directed by Prof. Scott Tremaine¹.

Summer 2009

[Sixth Helmholtz Summer School in Computational Cosmology](#), Astrophysikalisches Institut Postdam, Germany. Directed by Prof. Anatoly Klypin².

Summer 2006

XIV Verano en el Observatorio (Summer School in Astronomy), [Observatorio Astronómico Nacional, Baja California México](#). Directed by Prof. Hector Aceves³.

Summer 2005

Research Experience

Ph.D Graduate School Research, [UC Irvine](#).

Present

Work research experience under the supervision of Prof. [Joel Primack](#) and Postdoc [Patrik Jonsson](#), [UC Santa Cruz](#).

I performed a series of simulations of dust attenuation in merging galaxies. Part of a study aimed to understand the origin and evolution of galactic spheroids through a direct comparison of merger simulations with observations.

August 2006-May 2006

Undergraduate Senior Thesis Research, [UC Santa Cruz](#).

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I did my thesis research with Prof. Joel Primack⁴ and Postdoc Patrik Jonsson⁵ on simulations of dust attenuation in isolated spiral galaxies.

June 2005-June 2006

Summer Research Experience, [Universidad Nacional Autónoma de México](#).
I participated in a research project regarding soil contamination with Prof. [Eduardo Andrade](#)⁶. This consisted in analysing soil samples by X-ray Ion Beam Analysis techniques in a single ended 5.5 MeV Van de Graaff Accelerator.

Summer 2003

Teaching Experience

Teacher Assistant, [UC Irvine](#).
Phys 139, Observational Astrophysics, with Prof. Tammy Smecker-Hane⁷.
Fall 2010

Teacher Assistant, [UC Irvine](#).
Phys 3LC, Basic Physics Laboratory, with Prof. Herbert Hopster⁸.
Summer 2009

Teacher Assistant, [UC Irvine](#).
Phys 20A, Introduction to Astronomy, with Prof. Aaron Barth⁹.
Fall 2008

Teacher/Tutor, [Merit Academy](#).
I taught college level Calculus and Physics following the curriculum (Elaborated by UCSC's professors) of [Merit Academy](#)¹⁰. Classes were in a one to one fashion and designed to put advanced High School students a step ahead in their college level education.

March 2007 – June 2007

Lab Assistant, [UC Santa Cruz](#).
I assisted in directing the observations for the advanced astronomy laboratory of the undergraduate Astrophysics program at UCSC. The professor in charge was Rachel Dewey¹¹.

September 2006 – December 2006

Awards

[UCI Miguel Velez Fellowship](#)

MENCION HONORIFICA, [XXII CONGRESO NACIONAL DE ASTRONOMIA](#).
I obtained the second place for best undergraduate thesis contest at the [National Astronomy Conference](#) that took place in Mexico City between the 15th and 18th of April, 2008.

[UC MEXUS-CONACYT](#) Doctoral Fellow

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⁵ patrik@ucolick.org

⁶ andrade@fisica.unam.mx

⁷ tsmecker@uci.edu

⁸ hhopster@uci.edu

⁹ barth@uci.edu

¹⁰ <http://www.meritworld.com>

¹¹ dewey@astro.ucsc.edu

Publications

[Rocha M., Jonsson P., Primack J. R., Cox T. J., 2008, MNRAS, 383, 1281](#)

Thesis

[Rocha, M. 2006, Senior Thesis \(Honors\), University of California, Santa Cruz](#)