Ryan Beauchemin

Contact

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Experience

Dec 2017 - Current — Senior Data Scientist, *Lowe's Home Improvement*

Currently continuing support of past functions and implementing best practice machine learning through spark on Hadoop, with a focus on delivery.

Feb 2017 - Dec 2017 — Data Scientist, *Lowe's Home Improvement*

Switching from a dot com support to enterprise-wide support, I had the opportunity to interview and hire new employees, starting a brand new data science group. The enterprise shift led us to open many new connections and work on projects across the organization.

Aug 2015 - Feb 2017 — Data Analyst / Web Analyst, *Nabler / Lowe's Home Improvement*

On the Personalization and Optimization team at Lowe's Home Improvement's dot com division, I created algorithms utilizing product and user data to provide visitors with intelligent and personalized recommendations. I also analyzed clickstream, orders, cart additions, and revenue to optimize the experience.

Jun 2014 - Aug 2015 — Research Assistant, *UNC Physics and Astronomy*

As a part of the **RESOLVE** team under Dr. Sheila Kannappan, I have been trained in dynamic observation, reduction of data, and instrumentation for the 4.1-meter Chilean SOAR telescope, and my research involved determination of three dimensional information from two dimensional projections.

Jan 2014 - Aug 2014 — Research Assistant, *UNC Physics and Astronomy*

In Dr. Dan Reichart's group, I helped in the creation of the largest database for Gamma Ray Burst afterglows, working heavily with spreadsheets and data manipulation in a massive SQL database.

Oct 2013 - May 2015 — Teaching Assistant, *UNC Physics and Astronomy*

I was an assistant for two years in the lab component of the University of North Carolina's Introductory Astronomy course. Teaching people about subjects that I know and love is incredibly rewarding.

Jun 2013 - Oct 2013 — Analyst, *Astronomy Research Center*

Interning with Dr. Rachel Smith and Dr. Patrick Treuthardt, I designed informative videos using iMovie and Keynote, gave presentations on solar phenomena with an Hα filtered solar telescope, and used IRAF to determine intrinsic properties of spiral galaxies. In 2017, our team was featured with an image I took of the first discovered double Hoag's galaxy.

Jan 2013 - Jun 2013 — STEM Lab Assistant, *Wake Technical Community College*

The STEM lab was created by the Math club and was a great introduction into teaching. I mostly worked with students who needed help with coding, physics, math, and astronomy.

Education

July 2015 — Bachelor of Science Degree in Physics, *University of North Carolina at Chapel Hill*
Major: Astrophysics | *Emphasis on Galaxy Evolution and Dynamics*
GPA: 3.0

July 2012 — Associate Degree in Science, *Wake Technical Community College*
Graduated with the highest honors | *Emphasis on Physics and Astronomy*
GPA: 4.0

Proficiencies

Languages — Bash, CSS, Emacs, Git, HiveQL, HTML, IDL, JavaScript, Mathematica, MATLAB, **Python**, R, Scala, Spark, Teradata, XML in Linux, Mac OSX, and Windows environments

Tools — Alteryx, Anaconda, Aqua Data Studio, GIMP, Jupyter, Keynote, LaTeX, Libre/MS Office, Photoshop, Zeppelin

Astronomy — DS9, GAIA, IRAF

Awards and Certificates

2015 Certificate of completion of Penn State Astrostatistics course
2015 Recipient of SKYNET Undergraduate Research Scholarship
2014 UNC OUR Travel Grant for American Astronomical Society 225th Meeting
2014 Beneficiary of NSF CAREER Award Supplement
2013 Recipient of North Carolina Space Grant for Undergraduates
2013 Accepted as student astronomer at NRAO WV for ERIRA-UNC
2013 Second place at the southeast regional calculus competition in GA
2012 First place at the North Carolina Calculus competition in Gastonia
2012 Second place at NASA MSFC NCAS rover competition
2012 Third place school-wide SML competition through AMATYC

Groups and Organizations

2014-2015 Member of Dr. Kannappan's RESOLVE team at UNC
2014-2015 Resource Manager of UNC's Society of Physics Students
2014-2015 Member of Accessibility Resources team at UNC
2013-2015 Member of Dr. Dan Reichart's GRB team at UNC
2013-2015 Member of UNC's Society of Physics Students
2012-2013 National Community College Aerospace Scholar at NASA MSFC
2012-2015 Member of the Mu Alpha Theta Math Honor Society
2011-2012 Senator of the Student Government at Wake Technical CC
2011-2015 Member of the Phi Theta Kappa Honor Society
2010-2013 Officer of Wake Technical CC's Math Club