

# RYAN BEAUCHEMIN

## CONTACT

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## EXPERIENCE

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DEC 2017 - CURRENT	<b>Senior Data Scientist, <i>Lowe's Home Improvement</i></b> 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	<b>Data Scientist, <i>Lowe's Home Improvement</i></b> 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	<b>Data Analyst / Web Analyst, <i>Nabler / Lowe's Home Improvement</i></b> 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	<b>Research Assistant, <i>UNC Physics and Astronomy</i></b> As a part of the <b>RESOLVE</b> 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	<b>Research Assistant, <i>UNC Physics and Astronomy</i></b> 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	<b>Teaching Assistant, <i>UNC Physics and Astronomy</i></b> 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	<b>Analyst, <i>Astronomy Research Center</i></b> Interning with Dr. Rachel Smith and Dr. Patrick Treuthardt, I designed informative videos using iMovie and Keynote, gave presentations on solar phenomena with an H $\alpha$ 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 <b>double Hoag's galaxy</b> .
JAN 2013 - JUN 2013	<b>STEM Lab Assistant, <i>Wake Technical Community College</i></b> 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

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- 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

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- 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,  $\text{\LaTeX}$ , Libre/MS Office, Photoshop, Zeppelin
- Astronomy DS9, GAIA, IRAF

## AWARDS AND CERTIFICATES

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- 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 225<sup>th</sup> 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

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- 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