

# RYAN BEAUCHEMIN

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## EXPERIENCE

JUL 2019 - PRESENT	<b>Principal Data Scientist, <i>Lowe's Home Improvement</i></b> In the principal role I have grown my small team, continuing the build of the Assortment Planning Suite utilizing machine learning models built to identify localization opportunity from customer behavior. I am responsible for the Data Science portfolio for Merchandising and Marketing at Lowe's and lay out the roadmap and direction for Data Science, Data Engineering, and Software Engineering teams for related products. I am also responsible for providing technical expertise to the team from my background in building data science products for retail.
DEC 2017 - JUL 2019	<b>Senior Data Scientist, <i>Lowe's Home Improvement</i></b> In the senior role I had the opportunity to select and grow a team of 6 to build out an Assortment Planning Suite for Merchandising from scratch. I also had the opportunity to form the Data Science team responsible for recommendations and personalization to take over my previous work. I have worked to share knowledge on Agile methodology and cloud-based systems to align with modern practices.
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 folks to work with and start a new data science group at Lowe's. During this time, I finalized the product recommendations algorithms for Lowe's bringing more than 13% improvement in incremental sales (A/B test measured) over just one year. The enterprise shift led us to open many new connections and work on projects across new organizations.
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 created a feedback loop trained on orders, cart additions, and revenue to optimize the experience.
JUN 2014 - AUG 2015	<b>Astrophysicist, <i>UNC Physics and Astronomy</i></b> As a part of the <a href="#">RESOLVE</a> team under Dr. Sheila Kannappan, I was responsible for dynamic observation, reduction of data, and instrumentation on the 4.1-meter Chilean SOAR telescope, and my research involved determination of three dimensional information from two dimensional projections of galaxies, <a href="#">finding standard assumptions to be wrong</a> .
JAN 2014 - AUG 2014	<b>Astrophysicist / Teaching Assistant, <i>UNC Physics and Astronomy</i></b> In Dr. Dan Reichart's group, I worked with a strong team to create the largest database for Gamma Ray Burst afterglows, working heavily with spreadsheets and data manipulation in a massive SQL database. I was also an undergraduate teaching assistant in the lab component of the Astronomy courses at UNC.
JUN 2013 - OCT 2013	<b>Research Assistant, <i>NC Astronomy Research Center</i></b> I designed informative videos using iMovie and Keynote, gave presentations on solar phenomena with an H $\alpha$ filtered solar telescope, and developed tools to <a href="#">determine intrinsic properties of spiral galaxies</a> . In 2017, our team was featured when a galaxy I discovered and imaged was determined as <a href="#">the first ever discovered Double Hoag's galaxy</a> .

## EDUCATION

2022	MS Computer Science, <i>Georgia Institute of Technology</i>
2015	BS Physics, <i>University of North Carolina at Chapel Hill</i>

## PROFICIENCIES

Programming	<b>Python</b> , Regex, Shell
Frontend	<b>React</b> , Flux/Redux, JavaScript, Jenkins, Node
Backend	<b>NodeTS</b> , NodeJS, express
Data	<b>Phoenix HBase</b> , <b>Hive</b> , HDFS, Teradata, PostGres, Oozie
CICD	<b>Git</b> , <b>Jenkins</b> , Spinnaker, GCR
Cloud	GCR (+Docker), GCS, Kubernetes Engine, BigQuery, BigTable