

# BYRON KONRAD KING

## CURRICULUM VITAE

byronkking@gmail.com || www.byronkking.com

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### EDUCATION

- 2021-2023 **The University of Texas at Austin**, Austin, TX  
Master of Science in Data Science  
Honors: *Distinguished Academic Merit (all semesters), Research Assistant Nomination based on distinguished research contributions in the field*
- 2012-2016 **The George Washington University**, Washington, DC  
Bachelor of Science in Economics and Statistics  
Honors: *magna cum laude, Dean's List for Distinguished Academic Merit (all semesters)*
- 2015 **Warsaw School of Economics**, Warsaw, Poland  
*Concentration in Statistical Methods in Economics, semester exchange*
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### WORK EXPERIENCE

- December 2022 - **Recorded Future**, Boston, Massachusetts  
*Engineering Manager*
- Lead a team of data engineers and data scientists on the Data Science team that are in charge of "Advanced Collections" that provide intelligence to customers in a range of industries
  - Responsible for day to day responsibilities involving building web harvesters to collect information on the dark web, analyzing stolen credentials from malware, and maintaining downstream NLP processes on the sensitive text data my team collects
- July 2021 - **Iris Worldwide**, Boston, Massachusetts  
November 2022 *Data Science Manager*
- Led a team of data scientists, analysts and developers in a mentorship-focused role that involved technical and non-technical peer guidance in a hybrid personal-contributor/manager position
  - Acted in a product management capacity in a broader software development paradigm which involves project ideation, deadline and workload management, project-planning and JIRA operation
  - Built and maintained machine learning models to optimize impact of targeted marketing content for key stakeholders, and developed a range of data products including interactive, client-facing dashboarding applications as well as statistical models leveraged by key clients
- August 2019 - **Nethone**, Warsaw, Poland  
August 2021 *Data Scientist, E-Commerce Vertical Owner*
- Managed a team of machine learning engineers, data scientists and developers to maintain production model quality and to complete long term fraud detection research tasks
  - Built and maintained machine learning models to detect fraudulent activity for ecommerce clients with daily transactions worth thousands of dollars of luxury goods
  - Researched and implemented advances in fraud detection technology, including siamese networks, slice-based learning, minority oversampling of unbalanced data, and counterfactual evaluation
- October 2018- **Cogo Labs**, Boston, Massachusetts  
May 2019 *Data Scientist, Hausily Team*

- Served as lead generation expert on Hausily team by taking on role of integrating real estate lead generation revenue stream used by KTRA into overall business and client outreach strategy
- Harnessed Hausily's robust data capabilities to increase the value of real-estate leads, and built statistical models in R using new datasets to predict which properties are likely to come to market

February 2015- **KT Realty Analytics (KTRA)**, Providence, Rhode Island

October 2018 *Founder and CTO*

- Created and maintained a system of web scrapers to gather real estate information from diverse sources and built statistical models in R to surface properties most likely to come to market
- Developed a lead management Django web platform for real estate agents to manage their lead pool and track their progress towards converting their real estate leads
- Acquired by Hausily at Cogo Labs in October 2018

August 2016- **Next College Student Athlete (NCSA)**, Chicago, Illinois

September 2018 *Data Scientist*

- Built and deployed models to improve business processes, such as a lead-scoring algorithm that optimized client-calling strategies for our sales team as well as various client-retention models
- Created Shiny applications/dashboards to provide insight to decision-makers, such as a lead activity timeline and a performance dashboard, to help our sales team make more informed calls

## FELLOWSHIPS/INTERNSHIPS

May 2016- **Optimus Consulting**, Washington, DC

Sept 2016

*Data Science Fellow*

- Used time-series and Bayesian statistical models to micro-target and segment voters; used large voter files from over twenty states to predict likely voter turnout
- Queried various database types to perform voter file quality checks and make ad-hoc segment reads, and used Python to perform analysis of voter files to assess data quality

January 2016- **Cava Grill**, Washington, DC

May 2016

*Data Science Intern*

- Collected weather data from the WeatherUnderground API using Python, modeled the effect of weather on daily restaurant sales across multiple stores, and created a report detailing the results
- Built a queuing simulation prototype in R to estimate queue size given a particular arrival rate and service distribution using data collected at restaurant locations by Raspberry Pi sensors

May 2015- **The Providence Plan (now DataSpark)**, Providence, RI

August 2015

*Data Analyst Intern, The Information Group*

- Analyzed large economic datasets using statistical software, including a robust dataset containing multiple years of quarterly wage data supplied by the Rhode Island DLT
- Created a “data story”, using Django web framework to incorporate Tableau visuals of wage data, to communicate findings about RI workers to encourage informed, empirical policy-making

## PUBLICATIONS/PRESENTATIONS

January 2022 **Computational Linguistics (CL)**, *Pending Peer-Review*

*Publication: “Improving QA Model Performance Using Truncated Contexts and Length Limits Among Top-K Predicted Tokens Before Final Evaluation”*

- An investigation into pre- and post-processing methods for improving the performance of large pre-trained models (e.g. ELECTRA) specifically on question-and-answer (QA) tasks
- Co-authored with Abhishek Pandey, a fellow NLP researcher

January 2021 **Maritime Economics and Logistics (MEL)**, *Pending Peer-Review*

*Publication:* “Determinants of Choosing the National Flag for Ship Registration”

- A survey of recent research into the determinants of a recent rise in vessel owners using national flags over foreign flags, and an analysis of the most recent trends in vessel ownership
- Co-authored with Dr. Jan Hoffmann, Ricardo Sanchez, Wayne Talley

May 2019

**International Association of Maritime Economists Annual Conference 2019, Athens, Greece**

*Presentation:* “Flagging In: Motivations for Adopting the National Flag in Maritime Transport”

- Analyzed the determinants that cause a recent rise in vessel owners using national flags over foreign flags
- Co-authored with Dr. Jan Hoffmann, who represents the United Nations Conference on Trade and Development

May 2016

**Maritime Economist Magazine**

*Article:* “Flagging Out: Motivations of the Foreign Flag Choice”

- Examines the factors that contribute most to a ship operator’s decision to “flag out” a vessel to a foreign country
  - Joined the board of editors to the magazine, where I am an editor and contributor
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## ACADEMIC HONORS

May 2016

**DataMASTER Fellowship Award**

*GW Data Science Master’s Program & GW Math and Science Departments*

- This program provides financial and advisory support for GW undergraduates for work on data-driven computational projects. I presented my findings at the GW Science and Tech fair
- I used the funds to purchase API access to Twitter and trained a Naïve Bayes classifier to label tweets about the presidential candidates from the Republican and Democratic parties preceding the 2016 election as “positive”, “neutral”, or “negative”

May 2016

**American Statistical Association (ASA) DataFest 2016**

*Winner of “Best Insight”*

- Leader of a team that represented GWU at the annual DC competition in which all of the major universities in the DMV area competed for the Best Insight Award using TicketMaster data
  - My team won first place by training a model which predicted a customer’s probability of buying a parking ticket and creating an interactive map to visualize the clients’ ticket-purchasing propensity in a user-chosen geographic area.
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## SKILLS

- *Statistical Software:* R; Matlab, (involuntary and regrettable) experience with SAS, SPSS; Stata
  - *Programming Languages:* Python; experience with C, C++, JavaScript, Java
  - *ML Frameworks:* TensorFlow, Pytorch; Keras, HuggingFace; limited experience with SparkML
  - *Web Frameworks:* Django, Flask, Streamlit (for Python); Shiny (for R)
  - *Natural Languages:* English; Polish; Russian & Ukrainian (intermediate); Yiddish & Spanish (basic)
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## LEADERSHIP

2019 –

**Signum Analytics**, Providence, Rhode Island

*Founder and CTO*

2015 – 2018

**KT Realty Analytics (KTRA)**, Providence, Rhode Island

*Founder and CTO*

2016 –

**Maritime Economist Magazine**

*Editor, Contributor*  
2015 – 2016 **GW School of Business President's Council**, Washington, DC  
*Representative for the Mathematics and Statistics Department*  
2015 – 2016 **Undergraduate Business Association**, Washington, DC  
*Board Member, Representative from the Columbian College of Arts and Sciences*  
2014 – 2016 **GW DATA**, Washington, DC  
*Organization Founder, President*

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## TEACHING / TUTORING

2019 – **Private English Tutor**, *Beginner Polish/Ukrainian Native Speakers*  
2017 – 2019 **Room Leader and Mathematics Tutor**, *Tutoring Chicago*  
2015 – 2016 **Lecturer & Teaching Assistant (Data Science Master's)**, *The George Washington University*  
2014 **Grading Assistant for Developmental Economics**, *Warsaw School of Economics*  
2008-2012 **Volunteer Teacher**, *Janusz Korczak Polish Language School, Rhode Island*

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## VOLUNTEER

- **Smile Warsaw**, *Food and Clothing Distribution Volunteer*
  - **Jewish Cemetery Preservation in Poland**, *Volunteer*
  - **Kościuszko Foundation**, *Volunteer Translator, Event Communications*
  - **Rhode Island Historical Cemetery Commission**, *Cemetery Preservationist*
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