Colin O. Quinn

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OBJECTIVE: Result driven data scientist seeking a role in analytics or forecasting, leveraging a strong background in computer science, applied statistics, and energy demand modeling.

EDUCATION:

- **Graduate Education - Marquette University**- Milwaukee, WI **Graduation: May 2025**
  - Doctor of Philosophy, Computer Science
  - Master of Science, Applied Statistics
- **Undergraduate Education - Marquette University** - Milwaukee, WI **Graduation: May 2019**
  - Major: Bachelor of Science Degree in Computer Science
  - Minor: Bachelor of Science Degree in Mathematics

EXPERIENCE:

Data Scientist | Marquette Energy Analytics| Milwaukee, WI June, 2019 - Current

- Developing and deploying scalable models for natural gas demand forecasting, helping to forecast ~24% of total U.S. gas demand
- Managed a $2.2M project to disaggregate billing cycle data for over 4.5 million natural gas customers into daily estimates in 2018 (Ph.D. dissertation topic)
- Initial contributor of Marquette Energy Analytics, LLC, a start-up based on Marquette University GasDay Lab
- Turning complex data challenges into actionable guidance

Research Assistant | Dr. Richard Povinelli | Milwaukee, WI June, 2018 – June, 2019

- Sole graduate student selected to accompany Dr. Richard Povinelli on sabbatical (1 year)
- Developed Smart Natural Gas alarm system using predictive analytics and trend analysis (Masters Thesis Topic)
- Gained experience with advanced analytical thinking, modeling techniques and implementation
- Invited to speak at the 2019 International Symposium on Forecasting in Thessaloniki, Greece

Research Scientist | Ifakara Health Institute | Ifakara, Tanzania January, 2017 – June, 2018

- Developed websites to improve the public's understanding of malaria transmission, control, and elimination
- Conducted malaria vector control studies, designing experiments and generating data on mosquito responsiveness to various olfactory stimuli

Software Developer | GasDay, Marquette University | Milwaukee, WI August, 2014 - January 2017

- Contributed to both front and back end software development for a gas forecasting application
- Participated on a Scrum developing team following the agile software development methodology
- Conducted clean coding practices with C#, SQL Server, F#, JAVA, and HTML

Application Support Specialist | GasDay, Marquette University | Milwaukee, WI August, 2013 – August, 2014

- Built GasDay's forecasting model for a number of customers from start to finish. Followed different specifications for each build to verify and ensure the application is what the customer needs
- Improved my real-time comprehension skills by working under different team leaders and deciding what tasks need to be completed in what order
- Helped customers with problems they experienced, found ways to work around obstacles and other problems that come with a deliverable application

SKILLS*:*

- Python, R, MATLAB, SQL, Java, C#, HTML/CSS/JS, Git, Visual Studio, VS Code
- VIM, cmd, npm, GitHub Copilot, Visual Studio, Visual Studio Code
- Large Language Model (LLM) enthusiast, familiar with field literature and current subscriber to ChatGPT
- Scrum Agile Software Methodology

PUBLICATIONS*:*

- Quinn, C.O.; Povinelli, R.J.; Corliss, G.F. Alarm Forecasting in Natural Gas Pipelines, Marquette University, 2020. doi:10.3390/en28261843
- Quinn, C.O.; Corliss, G.F.; Povinelli, R.J. Cross-Temporal Hierarchical Forecast Reconciliation of Natural Gas Demand. Energies 2024, 17, 3077, doi:10.3390/en17133077
- Quinn, C.O.; Brown, R.H.; Corliss, G.F.; Povinelli, R.J. An Iterative Shifting Disaggregation Algorithm for Multi-Source, Irregularly Sampled, and Overlapped Time Series. Sensors 2025, 25, 895, doi:10.3390/s25030895
- Quinn, C.O.; Brown, R.H.; Corliss, G.F.; Povinelli, R.J. Inferring Daily Gas Consumption from Multiple Nonuniformly Sampled Billing Cycles with Hierarchical Constraints, Marquette University, 2025, https://epublications.marquette.edu/dissertations_mu/3315