

# Andrea Keefe Egan

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## TECHNICAL SKILLS

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**Software:** Python (incl. Pandas, scikit-learn) | TypeScript | React | Java

**Databases:** Postgres | Google Cloud Datastore | BigQuery

**Platforms:** AWS: EC2, Lambda, SQS | Google Cloud Platform: App Engine, Dataflow

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## EXPERIENCE

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**Bayes Impact** | San Francisco, CA

Mar 2017-Present

*Software Engineer*

Tech Lead and Project Manager for Center for Medicare and Medicaid Services Contract and contributor to internal Insurance Network Adequacy tool.

- Lead team of 4 engineers in completing Quality Payments Program Contract.
- Built parallel analysis pipeline for calculation of 300,000 physician quality scores.
- Integrated analysis pipeline with legacy claims storage database.
- Worked with policy measure stewards to verify definitions and calculations of quality measures.
- Extract data for providers participating in HealthCare.gov insurance plans.
- Expand Network Adequacy UI built with TypeScript, React, and Material-UI.

**Workiva, Inc.** | Boulder, Co

Sept 2015-Feb 2017

*Software Engineer*

Developed a new business analytic infrastructure using Amazon Kinesis and BigQuery on the internal Analytic Services team.

- Gathered, processed, and analyzed customer use data to inform new licensing model using Python.
- Wrote Google Cloud Dataflow jobs in Java to extract analytic data from Google Cloud Datastore.
- Developed App Engine app to schedule and run Dataflow jobs using Python and Dart.
- Founded and led biweekly analytics “learning group” focused on improving team data science knowledge.

**Center for Integrated Plasma Studies** | Boulder, CO

Sept 2014-Aug 2015

*Research Assistant*

- Analyzed properties of simulations of magnetic reconnection in astrophysical plasmas.
- Identified and classified magnetic structures using Python to analyze chaotic particle behavior.

**Hough Lab** | Boulder, CO

June 2013-May 2014

*Research Assistant*

- Measured fluorescence transfer (FRET) to understand binding of Nuclear Pore proteins.
- Modeled diffusion of disordered protein through gel in MATLAB.

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## EDUCATION

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**University of Colorado Boulder**

Boulder, CO

**MS, Physics**

August 2015

NSF Graduate Research Fellowship 2014

**Barnard College**

New York, NY

**BA, Physics, *Magna Cum Laude***

February 2013

Phi Beta Kappa 2013

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## LEADERSHIP

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**CU-Prime Program, CU Boulder Physics Department**

Sept 2013-Jan 2016

- Served as co-facilitator overseeing mentorship, lecture series, and seminar programs
- Managed publicity for biweekly lecture series with 30-60 undergraduate attendees
- Founded mentorship program, pairing 16 undergraduates with graduate student mentors each year

Boulder, CO