

Ian K. Eaves

FOUNDER • DATA SCIENTIST • MACHINE LEARNING ENGINEER

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Education

Drexel University

MASTERS OF SCIENCE (ABD), PHYSICS

Philadelphia, PA

Sept. 2011 - Dec. 2014

Baylor University

BACHELORS OF SCIENCE, PHYSICS, MINOR IN MATHEMATICS AND HISTORY

Barry M. Goldwater Scholar • Honors College Member • Dean's List • Elected Student Senator

Waco, TX

Sept. 2007 - May. 2011

Experience

Grai

FOUNDER

Madison, WI

July 2021 to present

- Founded Grai, an open-source platform that simplifies the management of complex data systems for businesses.
- Directed a global team to develop and maintain the platform, attracting users from companies like Roblox, Remax, and Axios.
- Spearheaded all facets of early-stage company development, including fundraising, marketing, and product strategy, securing support from investors such as Y Combinator.

Centene

LEAD MACHINE LEARNING ENGINEER

St. Louis, MO

Jun. 2019 - July 2021

- Served as the lead machine learning engineer for the NextGen and population health initiatives at Centene, a Fortune 50 health insurer.
- Guided a cross-functional team to develop new technologies which improved healthcare data system operations and accessibility.
- Architected and oversaw implementation of internal machine learning deployment capabilities.
- Oversaw project planning and collaborated with stakeholders across departments to align goals with organizational priorities.
- Mentored junior team members, fostering professional growth and technical excellence.

CiBO Technologies

LEAD DATA SCIENTIST

St. Louis, MO

May 2018 - May 2019

- Directed a team at CiBO Technologies to develop data tools that improved agricultural system modeling and analysis.
- Designed models to predict rainfall distribution and enhance environmental understanding at the field level.
- Created software solutions to refine agricultural data quality, supporting sustainable farming practices.

Bayer (formerly Monsanto)

DATA SCIENTIST

St. Louis, MO

Feb. 2017 - May 2018

- Collaborated with Bayer's consumer behavior team to analyze and address farmer needs through data-driven insights.
- Developed models to forecast customer demand, enhancing sales strategies and resource allocation valued in the 10's of millions of dollars.

Mentor Spaces (formerly Better Weekdays)

SENIOR DATA SCIENTIST

St. Louis, MO

May 2016 - Feb. 2017

- Built foundational analytics systems for Mentor Spaces, empowering underrepresented professionals through mentorship and career opportunities.
- Designed tools to connect students with mentors and job prospects, fostering professional growth.

Bellhops

LEAD DATA SCIENTIST

Chattanooga, TN

Dec. 2014 - May. 2016

- Led a cross-functional team of data scientists and engineers to establish the foundational analytics and machine learning capabilities for Bellhops, a tech-enabled moving company.
- Led analytics initiatives leading to a \$13.5M Series B funding round.
- Implemented the company's first data warehouse and developed models to forecast demand across markets.
- Developed and implemented a variety of machine learning models to optimize customer acquisition and retention.

Drexel University

DOCTORAL CANDIDATE (ABD)

Philadelphia, PA

Sept. 2011 - Dec. 2014

- Taught undergraduate engineering physics courses, emphasizing clear communication of complex concepts.
- Conducted computational research on quantum systems and studied protein folding in relation to Alzheimer's disease.

Helmholtz Zentrum Berlin

RESEARCH ASSISTANT

Berlin, Germany

Jun. 2012 - Dec. 2012

- Conducted research at Helmholtz Zentrum Berlin as part of an academic exchange program, focusing on sensor technology development.
- Designed and fabricated sensor arrays and created software for advanced data analysis.

Space Camp

CAMP COUNSELOR

Izmir, Turkey

Summer 2011

- Served as a counselor at Space Camp Turkey, mentoring students from diverse cultural backgrounds in STEM subjects.
- Cared for teams of 10–20 students, fostering curiosity about space exploration while improving their English skills.

Baylor University

OFFICE ASSISTANT

Waco, TX

Sep. 2009 - May. 2011

- Worked in the physics department office assisting with administrative tasks and student support.

Baylor University

RESEARCH ASSISTANT

Waco, TX

Jan. 2009 - May. 2011

- Developed and implemented a novel method for infrared beam profiling including all necessary instrumentation control and data analysis software.
- Research formed the basis for an undergraduate thesis, publications in the Journal of Applied Physics, and in the AIP conference proceedings.
- Supported by multiple grant awards and earned the Barry M. Goldwater Scholarship supporting high achieving students in the sciences.

Williams Hart and Boundas Law Firm

LEGAL ASSISTANT

Houston, TX

Summer 2007 & 2008

- Supported litigation against GSK seeking compensation for parents of children affected by the drug Paxil.
- Collected and reviewed evidence, including medical records, depositions, and other legal documents.
- Gained firsthand exposure to case strategy and legal writing, fostering an interest in legal advocacy.

Interests

- **Competitive rowing**, particularly sweep rowing in eights.
- **Military history & tactics**, with special interest in pre-gunpowder eras.
- **Musical theater and tap dance**, especially Gilbert and Sullivan's operettas.
- **Street Epistemology**, a method and practice for fostering constructive discussions on challenging topics.

Publications

JOURNAL ARTICLES

Visions: An Open-Source Library for Semantic Data

Ian Eaves, Simon Brugman

Journal of Open Source Software 5.48 (2020) p. 2145. The Open Journal, 2020

Time-dependent Spatial Intensity Profiles of Near-Infrared Idler Pulses From Nanosecond Optical Parametric Oscillators

L. J. Olafsen, J. S. Olafsen, I. K. Eaves

Applied Physics B 124.6 (May 2018) p. 110. 2018

Synchronized Mid-Infrared Beam Characterization of Narrow Gap Semiconductors

L. J. Olafsen, I. K. Eaves, J. S. Olafsen

AIP Conference Proceedings 1416.1 (2011) pp. 88–90. 2011