Ben Bubnick

Analytics Training Specialist · Adjunct Professor

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"10+ years experience physics/astronomy/analytics lecturer"

Department of Physics

December 28, 2019

John Carroll University
1 John Carroll Boulevard
University Heights, Ohio 44118

Job Application for Adjunct Faculty, Physics

Dear Hiring Manager,

Who I am

I have been a data scientist with IBM for the last $4\frac{1}{2}$ years and have worked as a scientist in some capacity over the last 13 years. I have taught or tutored at the collegiate level over that same time period, most recently as a physics lecturer with Lorain County Community College (LCCC). I volunteer with many scientific outreach programs, such as an after school computer science program for East side Cleveland City Schools, based on a program delivered by Hyland Software in the west side suburbs.

My scholastic training is broad and encompasses a number of the various areas: notably with physics, mathematics, analytics, software, and teaching. My masters work focused on teaching along with research, something I have brought to many of my positions industry. As noted in my resume, one of the roles I have filled at IBM has been in onboarding and cross-team training, utilizing software engineering in areas of data cleaning and data analytics in areas of machine learning algorithms.

Why JCU

Though trained as a researcher, I define myself broadly as a teacher and am eager to return to the classroom. I am prepared to teach physics at many levels. At Miami University, I taught a "Physics for Poets" style course, while at the same time teaching technical physics courses to both regular and remedial populations at Cincinnati State. At LCCC I have taught both laboratory and lecture classes to a wide range of preparedness levels. I am enthusiastic to bring that same experience to John Carroll University for that same reason–the diversity of the student population makes for a challenging environment that I thrive in.

Why Me?

Not every student learns in the same way, especially with a subject as complex and daunting as physics. These days the didactic teaching methods we all learned on have to share the stage with active engagement methods, which have been my primary teaching methods both in industry and academia. I have long used Interactive Lecture Demonstrations teaching my lab course as you might expect, but have also noted significant improvement incorporating Interactive Computer Based Tutorials and Just in Time Teaching methods into my curriculum.

Sincerely,

Ben Bubnick

Attached: Resume