Rebecca Czyrnik

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# EDUCATION

Yale University (New Haven, CT) 2005 – 2009

Bachelor of Science, Physics, May 2009

Central Connecticut State University (New Britain, CT) 2013 – 2014

Masters of Teaching, Math and Science, July 2014

# WORK

**Physics Teacher** (Fairfield, Connecticut) 2014 – 2017

* Taught AP Physics 1, AP Physics 2, and first-year physics courses
* Differentiated activities to fit a range of student abilities
* Used inquiry-based activities to foster problem-soling skills
* Assessed student work to determine depth of understanding

English as a Second Language Teacher (Gyungsangbukdo, South Korea) 2010 – 2013

* Guided English classes for students in first through eleventh grade
* Designed activities to engage students and develop fluency
* Planned and taught after-school and summer classes
* Promoted cultural exchange

# RESEARCH

Senior Research (New Haven, CT) Developed a program to identify dwarf galaxies 2008 – 2009

Astronomy Internship at Bucknell (Lewisburg, PA) Explored star formation in dust clouds 2008

Comparative Cognition Laboratory (New Haven, CT) Studied capuchin monkeys 2008

Yale Neurobiology Lab (New Haven, CT) Trained rats for cognition studies 2007 – 2008

Primate Field Research (Bocas del Toro, Panama) Studied primate hand usage 2007

# PROGRAMMING

**Swift**: Designed a program for my dog to play on an iPhone or iPad. 2017

**Arduino**: Built a treat dispenser that interfaces with my iPhone/iPad program. 2017

**Ruby**: Passed both stages of App Academy’s Jumpstart Program 2017

**HTML/CSS**: Built my personal website from scratch 2016-2017

**Python**: Wrote a program to analyze the spectral data from a cellphone camera 2016-2017

**IDL**: Analyzed carbon monoxide spectra to explore the turbulence of dust clouds 2008

**Fortran**: Analyzed data in the college course “Research Methods in Astrophysics” 2007

# OTHER

PTA Teaching and Learning Grant 2017

Received a grant to implement programming and robotics in the Physics classroom

ETS Recognition of Excellence 2013

Mathematics, Physics, and General Science Content Knowledge

Level 2 Test of Proficiency in Korean 2011

Demonstrated ability to understand and express ideas in casual conversation