Amelia King

Dorchester, MA | (756) 294-7363 | kingame@bc.edu | linkedin.com/in/amelia-king

EDUCATION

Boston College, Morrissey College of Arts and Sciences **Chestnut Hill, MA**
Bachelor of Science in Biology, Minor in Environmental Studies | GPA: 3.45 / 4.00 May 2018
Relevant Coursework: Urban Design for Sustainability, International Environmental Science & Policy, Geographic Information Systems for Decision Making

The University of Queensland **St. Lucia, Australia**
- Conducted fieldwork on the distribution and size of sea cucumbers and green paddle worms in the Great Barrier Reef to track tidal change effect on population growth and distribution Fall 2016

RESEARCH EXPERIENCE

Boston College Oceanography & Estuarine Processes Lab **Chestnut Hill, MA**
Undergraduate Research Fellow for Gail Kineke January 2016 – May 2018
- Analyzed 200+ fine and course mud samples with a RO-TAP and sedigraph to depict sediment deposition and river morphology in both the Huang He River Delta in China and the Connecticut River Estuary
- Calibrated sensitive field and lab equipment for optimal results during sample testing
- Streamlined lab processes, increasing lab productivity from 10 samples per week to 22 samples per week

Northeastern University Ecological Economics & Fisheries Lab **Nahant, MA**
Intern for Jonathan Grabowski Summer 2017
- Ensured the success of a predation and regeneration experiment on 36 juvenile lobsters by regularly analyzing tank conditions and monitoring lobster interaction
- Maintained survivability conditions of 120+ mussels and 80+ baby lobsters used by staff for experiments

Boston University Ocean Ecology & Bio-Geochemistry Lab **Boston, MA**
Intern for Robinson Fulweiler Summer 2016
- Collected and profiled gas production of 20 topsoil core samples from salt-marshes near Ipswich, MA
- Built and dismantled 5 experimental field rigs after running lost-on-ignition and carbon-nitrogen analysis tests

SIGNIFICANT PROJECTS

Veg4Kids September 2017
- Collaborated with a team to develop a 30-page business plan for an indoor aquaponics farm intended for elementary and middle school use
- Pitched project to venture capitalists, who deemed it one of two viable proposals out of eight total proposals

Boston College Campus Food Waste March 2017
- Conducted study to determine if on- or off-campus living resulted in more food waste per capita
- Presented findings and a 10-year waste reduction plan to Boston College's Sustainability Department

Mine Rehabilitation February 2016
- Analyzed and confirmed Eneabba Mine's rehabilitation progress by assessing and comparing plant respiration rates and morphology

SKILLS

Computer: Microsoft Office Suite, R, Python, STATA, QGIS, Google Analytics
Language: Haitian Creole (Fluent), French (Intermediate Proficiency)

Kathy Cheng

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EDUCATION

Boston College, Morrissey College of Arts and Sciences; Chestnut Hill, MA
Bachelor of Science in Computer Science | Minors in Mathematics & Philosophy May 2019
GPA: 3.86/4.00 | Dean's List First Honors (Fall 2017 – Spring 2018)
Relevant Coursework: Machine Learning, Object Oriented Design, GPU Computing, Programming Languages

TECHNICAL SKILLS

Proficient in Java, Python, Linux, AWS, Docker, HTML, PHP, SQL, Ocaml
Competent in CUDA, Lua/Torch7, Deeppy, Keras, C, Git, ARM Assembly Language, Javascript, NodeJS, React, Azure, GCP

SELECTED PROJECTS

MLancer | *CEO* September 2018

- Leverage burgeoning community of Machine Learning hobbyists, students, and professionals by creating platform to connect developers to businesses looking to enter into artificial intelligence use
- Facilitate posting and execution of projects to assist in the transformation of Machine Learning from an esoteric research topic to a ubiquitous, valuable product

Rap Generator January 2018

- Employs N-Gram probabilistic model to select scraped words most associated with select "style" of a particular artist to generate a rap true to the selected artist's style

RESEARCH EXPERIENCE

InterSystems Corporation; Cambridge, MA Summer 2017
Software Development Intern

- Collaborated with supervisor to implement elasticity in cloud infrastructure provisioning and deployment tool
- Pitched use case and developed tool to manage and manipulate multiple cloud instances, which was demonstrated by the corporation at the Summer Global Summit

Omni Retail Technology; Seattle, WA Summer 2016
Software Development Intern

- Developed N-Gram Probabilistic model to categorize Home Depot Reviews with 75% accuracy
- Employed Natural Language Processing techniques to clean scraped big data
- Investigated and implemented relevant, newly published papers to optimize processes

WORK EXPERIENCE

Boston College Computer Science Department; Chestnut Hill, MA January 2017 – Present
Teaching Assistant for Computer Science I

- Support both the professor and 35 students by holding four office hours per week to provide further guidance and clarification on fundamental concepts of computer science

PEDRO RAYOS

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Education

Boston College, Morrissey College of Arts & Sciences | *Bachelor of Science in Chemistry*
Minor in Hispanic Studies | Major GPA: 3.76/4.00 | Cumulative GPA: 3.56/4.00
Chestnut Hill, MA May 2019

Universitat Pompeu Fabra
Barcelona, Cataluña, Spain January 2018 – June 2018

- Explored Spanish culture by living with a host family, attending a host university, and navigating everyday life in a non-English speaking country

Skills

Laboratory: Photomicroscopy, Mass Spectrometry, Immunocytochemistry, Plasmid DNA Isolation, Transformation
Language: Spanish (Advanced Proficiency)

Pharmaceutical Experience

Massachusetts College of Pharmacy & Health Science | *Health Economics Research Assistant*
Chestnut Hill, MA Summer 2018

- Designed, created, and tested a strategic model for the pharmaceutical industry that analyzes safety, efficacy, and economics to forecast which drugs will succeed on the market prior to clinical trials, significantly reducing the $800M spent to successfully launch a drug

Tetraphase Pharmaceuticals Inc. | *Pharmaceutical Lab Research Assistant, Infectious Disease Department*
Boston, MA Summer 2017

- Identified deficiencies in Type 2 diabetes drugs on the market and screened chemicals on new cellular targets to develop a more efficient drug, which is predicted to obtain substantially greater market share in the $14B oral Type 2 drug market compared to competitors

Boston Cancer Center | *Academic Lab Research Assistant*
Boston, MA Summer 2016

- Developed a product to recognize activity of a cancer-causing gene, aiding in discovery of brain cancer drug
- Engaged in all stages of product development: identification of market need, engineering of product, collaborating with industry for testing, production, and marketing of final drug
- Designed a new sequencing technique that refined a common laboratory protocol, increasing efficiency by 50% on average, reducing processing time by 25%, and creating more usable biological end-product

Volunteer Experience

The Campus School at Boston College | *Buddy Program*
Chestnut Hill, MA September 2016 – May 2019

- Formed a lasting relationship with a student with severe disabilities through activities like reading, listening, and walking in weekly meetings to develop and enhance socialization skills

The Campus School at Boston College | *Classroom Assistant*
Chestnut Hill, MA September 2015 – May 2019

- Supported a special education teacher for 10+ hours a week in implementing the educational, therapeutic, and health care needs of six first grade students