
CHRISTOPHER R. ALBA SANTANA

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PROFESSIONAL SUMMARY

Recently rated an exemplary teacher by Revere Public Schools with five years of teaching experience, a Professional Teaching license with SEI endorsement, and a wide array of skills. Passionate and ambitious teacher looking to utilize equitable practices that are student-centered, such as project-based learning, with hopes that these practices will lead to a more representative STEM field.

WORK HISTORY

Teacher, 08/2018 – Current

City of Revere – Revere, Massachusetts

- Worked collaboratively with other teachers to review data and develop instructional strategies to address student learning objectives.
- Served as Lead Teacher for the department for three consecutive years, supporting teachers in developing curricula and implementing district-wide initiatives.
- Developed and implemented student-centered curricula.
- Mentored several teachers within the department during their first two years.
- Set up lesson materials, bulletin board displays and demonstrations.

Lab Skills Group Coordinator, 07/2022 – 08/2022

Boston University – Boston, Massachusetts

- Supported new high school graduates interested in STEM with developing skills to be successful, including note-taking strategies, reading scientific papers, and how to make a scientific poster.
- Taught skills useful for engaging in research, including how to 3D print and how to program an ESP32 utilizing MicroPython.
- Met daily with students and supervised visits to various laboratories across Boston University.

MCAS Physics Teacher, 06/2018 – 08/2018

Upward Bound Mathematics and Science – Boston, Massachusetts

- Supported students in developing conceptual understanding of physics concepts to be successful on the Physics MCAS.
- Employed different strategies to facilitate and support student learning of physics concepts, including utilizing MCAS questions to check for understanding.

PROFESSIONAL DEVELOPMENT

- Boston University Research Experience for Teachers (RET) in Integrated Nanomanufacturing | Photonics Center | Boston, MA | 2023
- Boston University Research Experience for Teachers (RET) in Integrated Nanomanufacturing | Photonics Center | Boston, MA | 2021
- Science Teacher Enrichment Program (STEP) | MIT Materials Research Laboratory | Cambridge, MA | 2019
- Research for Better Teaching | Revere High School | Revere, MA | 2019

POSTER PRESENTATIONS

- Alba, C., Salazar, C., Saintus, W., Wai, J., & Dominguez, U., 2022, Explorations in Science and Engineering: Photolithography, 3D Printing, and MicroProcessing with Sensors
- Alba, C., Boley, W., & Morales, J., 2021, High Pressure Stepper Motor Syringe Pump Prototype

SKILLS

- Tailoring curriculum plans
- Experienced in student-centered and project-based learning practices
- Proficient in utilizing MicroPython for microcontrollers
- Expertise in 3D FDM printing
- Experience using laser-cutting utilizing diode lasers
- Capable of using LaTeX software for writing academic papers

EDUCATION

Certificate of Advanced Graduate Studies: Science Education, 09/2021 – 05/2023
Boston University - Boston, Massachusetts

Master of Arts in Teaching: Science Education, 07/2017 – 05/2018
Boston University - Boston, Massachusetts

Bachelor of Arts: Physics, 09/2013 – 05/2017
Vassar College - Poughkeepsie, New York

AWARDS

- Recipient of the Ruth Batson Impact Scholarship for the 2021-2022 and 2022-2023 Academic Years
- Recipient of the Latinos for Education award for the 2020-2021 Academic Year
- Recipient of Noyce Scholarship for the 2017-2018 Academic Year

LANGUAGES

English

Fluent

Spanish

Fluent