ANNA MUN

mun.anna.g@gmail.com | 347-784-2536 | Boston, MA

Northeastern University, Boston, MA Bachelor of Science, Physics **GPA: 3.2** Honors: Lawrence Undergraduate Research Fellowship Recipient Work Experience Massachusetts General Hospital – Harvard Medical School Boston, MA Research Technician, Herminia Diana Rosas, M.D. January 2019- present Investigated functional connectivity, white matter tractography, and cortical/subcortical volume changes in Huntington Disease subjects using structural and functioning magnetic resonance imaging (MRI) Studied Alzheimer's Disease progression in Downs Syndrome by tracking functional connectivity and white matter tractography impairment as potential biomarkers Scanned positron emission tomography (PET) images Theoretical Soft Matter and Biophysics Group, Northeastern University Boston, MA Research Assistant, Dapeng (Max) Bi, Ph.D. October 2018 - March 2019 Analyzed and processed images of cells in MATLAB, created a technique to extract information from three dimensional image matrices Structured data for over 2 thousands cells, for each cell, listed its location, boundaries, and neighboring cells Laboratory for Graphene Research, Northeastern University Boston, MA Research Assistant, Swastik Kar, Ph.D. August – December 2017 Developed LabVIEW UI tool to control, move, and locate Newport CONEX-AGP linear stages along the xy-grid Engineered 2-dimensional MoS₂ heterocrystal structures, experimented with growth conditions (temperature, ratio of reagents, time), conducted analysis of samples with transmission electron microscope Mapped images of 20 hexagonal structures of selected area electron diffraction patterns of MoS₂ crystals grown in a laboratory

Green Materials Laboratory, National Taiwan University of Science and Technology

Research Assistant, Yee-Wen Yen, Ph.D.

Education

-

-

- Ran 48 experiments to study interfacial reaction between lead-free solders and metal Alloy-42: prepared samples, vacuum-sealed reagents in sample tubes, experimented with reaction conditions (time, temperature)
- Examined samples with transmission electron microscope, collected and validated experimental data, presented findings to the principal investigator and his research team
- Tutored 5 graduate students in formal scientific writing in English for research paper publication purposes

Grantham, Mayo, Van Otterloo & Co. LLC

MATLAB Research and Development Co-op Intern

- Created MATLAB toolbox to call functions from another user's environment for quick communications between different developers and debugging purposes
- Designed the UI to upload .csv files, specify trade parameters, run functions to build trades between 50 accounts, and save output in original .csv format

Symbotic LLC – Robotic Warehouse Solutions

Robotic Research and Development Co-op Intern

- Implemented statistical analytics to analyze customer inventory and e-commerce orders in MATLAB; visualized and summarized observations and trends to present for customer and team meetings
- Collaborated with a small team of 7 to develop a unique warehouse storage and operating strategy for over 50K of SKUs and thousands of orders
- Designed an order sorting system, put-wall; and visualized it as a three-dimensional graphical model in -MATLAB, operating for 300-500 orders at a time

Skills and certifications

MRI certification for safely and accurately scanning human subjects, Linux/UNIX, Siemens MRI software, MATLAB, R, C++, LabView, LabWindows, MS Office Excel//Word/PowerPoint, LaTeX, Basic Scientific Techniques, Basic Circuit Design, Native Russian Language

Activities

- Vice President of the Society of Physics Students
- Teaching Assistant for Physics 2 Labs
- Peer Tutor, Physics 1-2
- Russian Language instructor for NUCALLS program

2017 - 2018January - May 2018 September – December 2014 September – December 2014

Taipei, Taiwan

March – April 2017

Wilmington, MA

January – June 2015

Boston, MA January – June 2016