

CAMERON YOUNG

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EDUCATION

July 2023	MPhil in Medical Sciences, Cancer Research UK Cambridge Institute, University of Cambridge, Cambridge, UK (expected)
May 2022	B.S. in Chemical Engineering and Biochemistry, Northeastern University, Boston, MA GPA: 3.96
June 2017	High School Diploma, Medfield High School, Medfield, MA

AWARDS

2022	Centers for Disease Control and Prevention/Agency for Toxic Substances and Disease Registry – Charles C. Shepard Science Award
2022	Winston Churchill Foundation of the United States – Churchill Scholarship (\$60,000)
2021	Barry Goldwater Excellence in Education Foundation – Goldwater Scholarship (\$7,500)
2020	Department of Chemical Engineering Outstanding Leadership Award
2019	Department of Chemical Engineering Outstanding Sophomore
2019	Best Poster Presentation – Engineering, Mathematics, and Applied Sciences, National Collegiate Research Conference, Harvard University (\$500)
2019	Northeastern University, Office of Undergraduate Research and Fellowships, Undergraduate Research and Creative Endeavor (UGRCE) Award (\$1,000)
2018	Northeastern University, Honor's Program, Early Research Award (\$1,000)
2017	Northeastern University Honors Scholarship
2017	Honor's Essayist and Commencement Speaker, Medfield High School

RESEARCH EXPERIENCE

Caldas Lab of Cancer Research UK Cambridge Institute

MPhil Candidate in Medical Sciences

September 2022 – Present

Advisors: Dr. Carlos Caldas and Dr. Oscar M. Rueda

- Developed and validated a novel, platform-independent machine learning algorithm for the classification of breast cancer tumors into integrative cluster subtypes utilizing genomic data
- Improved breast cancer sample classification accuracy by >10% compared with current gold standard approaches, enhancing clinical applicability and translated ability
- Published algorithm as open-source R package (*CopyClust*) for use by clinicians and researchers worldwide

Randolph Lab of Boston Children's Hospital

Clinical Data Analysis

January 2021 – Present

Clinical Research Assistant in Critical Care Medicine

June 2020 – December 2020

Advisor: Dr. Adrienne G. Randolph

- Facilitated a nationwide CDC-funded public health surveillance registry (Overcoming COVID-19) to characterize and track demographics, symptoms, complications, and clinical characteristics associated with COVID-19-related illness in children and adolescents
- Redefined the diagnosis and treatment of Multisystem Inflammatory Syndrome in Children (MIS-C) through careful prospective and retrospective analysis of patient data and application of clinical knowledge
- Performed epidemiological and statistical analyses using adjusted regression models, propensity score matching, and clustering algorithms on a database of over 10,000 patients to help physicians and public health officials better identify, diagnose, and treat COVID-19-related illness in children

Langer and Traverso Labs of MIT and Brigham and Women's Hospital

Clinical Data Analyst

January 2020 – September 2020

Clinical Research Assistant in Radiation Oncology

July 2019 – December 2019

Advisors: Dr. James D. Byrne, Dr. C. Giovanni Traverso, Dr. Robert S. Langer

- Developed a novel class of personalized radioprotective devices for mitigating healthy tissue damage in cancer patients as part of a full-time co-op experience
- Manufactured and 3D printed customized drug delivery systems for localized delivery and expression of radiation damage suppressing mRNA in various tissues
- Analyzed patient genetic information from whole genome sequencing and medical records to establish associations between single nucleotide polymorphisms and risk of radiation induced toxicities using machine learning models
- Identified previously undiscovered drug-drug interactions in the gastrointestinal tract using a Python-based machine learning model, validated by patient data

Northeastern University Molecular Bioelectrostatics and Drug Delivery Laboratory

Undergraduate Research Fellow

January 2018 – June 2020

Advisor: Dr. Ambika G. Bajpayee

- Identified the role of advanced glycation end-products (AGEs) in age-related osteoarthritis (OA) progression and determined targeted drug treatments to reverse negative OA tissue properties
- Created an accurate *in vitro* model of age-related osteoarthritis through biochemical and biomechanical tissue manipulation
- Developed novel assays and tissue characterization techniques based on relevant literature review and methodical independent experimental design

Northeastern University Advanced Mixed Signal and Integrated Circuit Laboratory

Summer Internship Participant

June 2016 – August 2016

Advisor: Dr. Marvin Onabajo

- Constructed an automatic calibration system for a portable brain signal measuring device
- Learned Arduino coding, advanced breadboard wiring, oscilloscope and signal generator operation, conduct in a research environment, and poster and presentation skills

PUBLICATIONS

Peer-Reviewed Publications

1. LaRovere K.L., Poussaint T.Y., **Young C.C.**, Newhams M.M., Kucukak S., Irby K., Kong M., Schwartz S.P., Walker T.C., Bembea M.M., Wellnitz K., Havlin K.M., Cvijanovich N.Z., Hall M.W., Fitzgerald J.C., Schuster J.E., Hobbs C.V., Halasa N.B., Singh A.R., Mack E.H., Bradford T.T., Gertz S.J., Schwarz A.J., Typpo K.V., Loftis L.L., Giuliano J.S., Jr., Horwitz S.M., Biagas K.V., Clouser K.N., Rowan C.M., Maddux A.B., Soma V.L., Babbitt C.J., Aguiar C.L., Kolmar A.R., Heidemann S.M., Harvey H., Zambrano L.D., Campbell A.P., Randolph A.G. & Overcoming COVID-19 Investigators (2022). Changes in Distribution of Severe Neurologic Involvement in US Pediatric Inpatients With COVID-19 or Multisystem Inflammatory Syndrome in Children in 2021 vs 2020. *JAMA Neurol.* doi: 10.1001/jamaneurol.2022.3881.
2. Bodansky A., Vazquez S.E., Chou J., Novak T., Al-Musa A., **Young C.C.**, Newhams M., Kucukak S., Zambrano L.D., Mitchell A., Wang C.Y., Moffitt K., Halasa N.B., Loftis L.L., Schwartz S.P., Walker T.C., Mack E.H., Fitzgerald J.C., Gertz S.J., Rowan C.M., Irby K., Sanders R.C., Jr., Kong M., Schuster J.E., Staat M.A., Zinter M.S., Cvijanovich N.Z., Tarquinio K.M., Coates B.M., Flori H.R., Dahmer M.K., Crandall H., Cullimore M.L., Levy E.R., Chatani B., Nofziger R., Overcoming COVID-19 Investigators, Geha R.S., DeRisi J., Campbell A.P., Anderson M., Randolph A.G. (2022). NFKB2 haploinsufficiency identified via screening for IFN-alpha2 autoantibodies in children and adolescents hospitalized with SARS-CoV-2-related complications. *J Allergy Clin Immunol.* doi: 10.1016/j.jaci.2022.11.020.

3. Son M.B.F., Berbert L., **Young C.C.**, Dallas J., Newhams M., Chen S., Ardoin S.P., Basiaga M.L., Canny S.P., Crandall H., Dhakal S., Dhanrajani A., Sagcal-Gironella A.C.P., Hobbs C.V., Huie L., James K., Jones M., Kim S., Lionetti G., Mannion M.L., Muscal E., Prahalad S., Schulert G.S., Teitel K.S., Villacis-Nunez D.S., Wu E.Y., Zambrano L.D., Campbell A.P., Patel M.M., Randolph A.G. & the Overcoming COVID-19 Investigators (2022). Postdischarge Glucocorticoid Use and Clinical Outcomes of Multisystem Inflammatory Syndrome in Children. *JAMA Netw Open*. doi: 10.1001/jamanetworkopen.2022.41622.
4. Dionne A., Friedman K.G., **Young C.C.**, Newhams M.M., Kucukak S., Jackson A.M., Fitzgerald J.C., Smallcomb L.S., Heidemann S., McLaughlin G.E., Irby K., Bradford T.T., Horwitz S.M., Loftis L.L., Soma V.L., Rowan C.M., Kong M., Halasa N.B., Tarquinio K.M., Schwarz A.J., Hume J.R., Gertz S.J., Clouser K.N., Corroll C.L., Wellnitz K., Cullimore M.L., Doymaz S., Levy E.R., Typpo K.V., Lansell A.N., Butler A.D., Kuebler J.D., Zambrano L.D., Campbell A.P., Patel M.M., Randolph A.G., Newburger J.W. & the Overcoming COVID-19 Investigators (2022). Tachyarrhythmias During Hospitalization for COVID-19 or Multisystem Inflammatory Syndrome in Children and Adolescents. *J. Am. Heart Assoc.* doi.org/10.1161/JAHA.122.025915
5. Zambrano, L.D., Newhams, M.M., Olson, S.M., Halasa, N.B., Price, A.M., Orzel, A.O., **Young, C.C.**, Boom, J.A., Sahni, L.C., Maddux, A.B., Blin, K.E., Kamidani, S., Tarquinio, K.M., Chiotos, K., Schuster, J.E., Cullimore, M.L., Heidemann, S.M., Hobbs, C.V., Nofziger, R.A., Pannaraj, P.S., Cameron, M.A., Walker, T.C., Schwartz, S.P., Michelson, K.N., Coates, B.M., Flori, H.R., Mack, E.H., Smallcomb, L., Gertz, S.J., Bhumbra, S.S., Bradford, T.T., Levy, E.R., Kong, M., Irby, K., Cvijanovich, N.Z., Zinter, M.S., Bowens, C., Crandall, H., Hume, J.R., Patel, M.M., Campbell, A.P., Randolph, A.G. & the Overcoming COVID-19 Investigators (2022). BNT162b2 mRNA Vaccination Against COVID-19 is Associated with Decreased Likelihood of Multisystem Inflammatory Syndrome in U.S. Children Ages 5-18 Years. *Clin Inf Dis*. doi: 10.1093/cid/ciac637
6. Maddux, A.B., Berbert, L., **Young, C.C.**, Feldstein, L.R., Zambrano, L.D., Kucukak, S., Newhams, M.M., Miller, K., Fitzgerald, M.M., He, J., Halasa, N.B., Cvijanovich, N.Z., Loftis, L.L., Walker, T.C., Schwartz, S.P., Gertz, S.J., Tarquinio, K.M., Fitzgerald, J.C., Kong, M., Schuster, J.E., Mack, E.H., Hobbs, C.V., Rowan, C.M., Staat, M.A., Zinter, M.S., Irby, K., Crandall, H., Flori, H., Cullimore, M.L., Nofziger, R.A., Shein, S.L., Gaspers, M.G., Hume, J.R., Levy, E.R., Chen, S.R., Patel, M.M., Tenforde, M.W., Weller, E., Campbell, A.P., Randolph, A.G. & the Overcoming COVID-19 Investigators (2022). Health Impairments in Children and Adolescents After Hospitalization for Acute COVID-19 or MIS-C. *Pediatrics*. doi: 10.1542/peds.2022-057798
7. Melgar, M., Seaby, E.G., McArdle, A.J., **Young, C.C.**, Campbell, A.P., Murray, N.L., Patel, M.M., Levin, M., Randolph, A.G., Son, M.B.F. & BATS Consortium & the Overcoming COVID-19 Investigators (2022). Treatment of Multisystem Inflammatory Syndrome in Children: Understanding Differences in Results of Comparative Effectiveness Studies. *ACR Open Rheumatol*. doi: 10.1002/acr2.11478
8. Halasa, N.B., Spieker, A.J., **Young, C.C.**, Olson, S.M., Newhams, M.M., Amarín, J.Z., Moffitt, K.L., Nakamura, M.M., Levy, E.R., Soma, V.L., Talj, R., Weiss, S.L., Fitzgerald, J.C., Mack, E.H., Maddux, A.B., Schuster, J.E., Coates, B.M., Hall, M.W., Schwartz, S.P., Schwarz, A.J., Kong, M., Spinella, P.C., Loftis, L.L., McLaughlin, G.E., Hobbs, C.V., Rowan, C.M., Bembea, M.M., Nofziger, R.A., Babbitt, C.J., Bowens, C., Flori, H.R., Gertz, S.J., Zinter, M.S., Giuliano, J.S., Hume, J.R., Cvijanovich, N.Z., Singh, A.R., Crandall, H.A., Thomas, N.J., Cullimore, M.L., Patel, M.M., Randolph, A.G. & the Pediatric Intensive Care Influenza & Overcoming COVID-19 Investigators (2022). Life-Threatening Complications of Influenza versus COVID-19 in U.S. Children. *Clin. Inf. Dis*. doi: 10.1093/cid/ciac477
9. **Young, C.C.**, Byrne, J. D., Wentworth, A. J., Collins, J. E., Chu, J. N., & Traverso, G (2022). Respirators in Healthcare: Material, Design, Regulatory, Environmental, and Economic Considerations for Clinical Efficacy. *Global Challenges*. doi: 10.1002/gch2.202200001
10. Schuster, J. E., Halasa, N. B., Nakamura, M., Levy, E. R., Fitzgerald, J. C., **Young, C. C.**, Newhams, M. M., Bourgeois, F., Staat, M. A., Hobbs, C. V., Dapul, H., Feldstein, L. R., Jackson, A. M., Mack, E. H., Walker, T. C., Maddux, A. B., Spinella, P. C., Loftis, L. L., Kong, M., Rowan, C. M., Bembea, M. M., McLaughlin, G. E., Hall, M. W., Babbitt, C. J., Maamari, M., Zinter, M. S., Cvijanovich, N. Z., Michelson, K. N., Gertz, S. J., Carroll, C. L., Thomas, N. J., Giuliano, J. S., Singh, A. R., Hymes, S. R., Schwarz, A. J., McGuire, J. K., Nofziger, R. A., Flori, H. R., Clouser, K. N., Wellnitz, K., Cullimore, M. L., Hume, J. R., Patel, M., Randolph, A. G., & the Overcoming COVID-19 Investigators (2022). A Description of COVID-19-Directed Therapy in Children Admitted to US Intensive Care Units 2020. *J Pediatric Infect Dis Soc*. doi: 10.1093/jpids/piab123

11. Hobbs, C. V., Woodworth, K., **Young, C. C.**, Jackson, A. M., Newhams, M. M., Dapul, H., Maamari, M., Hall, M. W., Maddux, A. B., Singh, A. R., Schuster, J. E., Rowan, C. M., Fitzgerald, J. C., Irby, K., Kong, M., Mack, E. H., Staat, M. A., Cvijanovich, N. Z., Bembea, M. M., Coates, B. M., Halasa, N. B., Walker, T. C., McLaughlin, G. E., Babbitt, C. J., Nofziger, R. A., Loftis, L. L., Bradford, T. T., Campbell, A. P., Patel, M. M., Randolph, A. G., & the Overcoming COVID-19 Investigators (2021). Frequency, Characteristics and Complications of COVID-19 in Hospitalized Infants. *Pediatr Infect Dis J*. doi: 10.1097/INF.0000000000003435
12. Geva, A., Patel, M. M., Newhams, M. M., **Young, C. C.**, Son, M. B. F., Kong, M., Maddux, A. B., Hall, M. W., Riggs, B. J., Singh, A. R., Giuliano, J. S., Hobbs, C. V., Loftis, L. L., McLaughlin, G. E., Schwartz, S. P., Schuster, J. E., Babbitt, C. J., Halasa, N. B., Gertz, S. J., Doymaz, S., Hume, J. R., Bradford, T. T., Irby, K., Carroll, C. L., McGuire, J. K., Tarquinio, K. M., Rowan, C. M., Mack, E. H., Cvijanovich, N. Z., Fitzgerald, J. C., Spinella, P. C., Staat, M. A., Clouser, K. N., Soma, V. L., Dapul, H., Maamari, M., Bowens, C., Havlin, K. M., Mourani, P. M., Heidemann, S. M., Horwitz, S. M., Feldstein, L. R., Tenforde, M. W., Newburger, J. W., Mandl, K. D., Randolph, A. G., & the Overcoming COVID-19 Investigators (2021). Data-driven Clustering Identifies Features Distinguishing Multisystem Inflammatory Syndrome from Acute COVID-19 in Children and Adolescents. *EClinicalMedicine*. doi: 10.1016/j.eclinm.2021.101112.
13. Son, M. B. F., Murray, N., Friedman, K., **Young, C. C.**, Newhams, M. M., Feldstein, L. R., Loftis, L. L., Tarquinio, K. M., Singh, A. R., Heidemann, S. M., Soma, V. L., Riggs, B. J., Fitzgerald, J. C., Kong, M., Doymaz, S., Giuliano, J. S., Jr., Keenaghan, M. A., Hume, J. R., Hobbs, C. V., Schuster, J. E., Clouser, K. N., Hall, M. W., Smith, L. S., Horwitz, S. M., Schwartz, S. P., Irby, K., Bradford, T. T., Maddux, A. B., Babbitt, C. J., Rowan, C. M., McLaughlin, G. E., Yager, P. H., Maamari, M., Mack, E. H., Carroll, C. L., Montgomery, V. L., Halasa, N. B., Cvijanovich, N. Z., Coates, B. M., Rose, C. E., Newburger, J. W., Patel, M. M., Randolph, A. G., & the Overcoming COVID-19 Investigators (2021). Multisystem Inflammatory Syndrome in Children - Initial Therapy and Outcomes. *N Engl J Med*, 385(1), 23-34. doi:10.1056/NEJMoa2102605
14. Byrne, J. D., **Young, C. C.**, Chu, J. N., Pursley, J., Chen, M. X., Wentworth, A. J., Feng, A., Kirtane, A. R., Remillard, K. A., Hancox, C. I., Bhagwat, M. S., Machado, N., Hua, T., Tamang, S. M., Collins, J. E., Ishida, K., Hayward, A., Becker, S. L., Edgington, S. K., Schoenfeld, J. D., Jeck, W. R., Hur, C., & Traverso, G. (2021). Personalized Radiation Attenuating Materials for Gastrointestinal Mucosal Protection. *Adv Sci*, 8(12), 2100510. doi:10.1002/advs.202100510
15. LaRovere, K. L., Riggs, B. J., Poussaint, T. Y., **Young, C. C.**, Newhams, M. M., Maamari, M., Walker, T. C., Singh, A. R., Dapul, H., Hobbs, C. V., McLaughlin, G. E., Son, M. B. F., Maddux, A. B., Clouser, K. N., Rowan, C. M., McGuire, J. K., Fitzgerald, J. C., Gertz, S. J., Shein, S. L., Munoz, A. C., Thomas, N. J., Irby, K., Levy, E. R., Staat, M. A., Tenforde, M. W., Feldstein, L. R., Halasa, N. B., Giuliano, J. S., Jr., Hall, M. W., Kong, M., Carroll, C. L., Schuster, J. E., Doymaz, S., Loftis, L. L., Tarquinio, K. M., Babbitt, C. J., Nofziger, R. A., Kleinman, L. C., Keenaghan, M. A., Cvijanovich, N. Z., Spinella, P. C., Hume, J. R., Wellnitz, K., Mack, E. H., Michelson, K. N., Flori, H. R., Patel, M. M., Randolph, A. G., & the Overcoming COVID-19 Investigators (2021). Neurologic Involvement in Children and Adolescents Hospitalized in the United States for COVID-19 or Multisystem Inflammatory Syndrome. *JAMA Neurol*, 78(5), 536-547. doi:10.1001/jamaneurol.2021.0504
16. Feldstein, L. R., Tenforde, M. W., Friedman, K. G., Newhams, M., Rose, E. B., Dapul, H., Soma, V. L., Maddux, A. B., Mourani, P. M., Bowens, C., Maamari, M., Hall, M. W., Riggs, B. J., Giuliano, J. S., Jr., Singh, A. R., Li, S., Kong, M., Schuster, J. E., McLaughlin, G. E., Schwartz, S. P., Walker, T. C., Loftis, L. L., Hobbs, C. V., Halasa, N. B., Doymaz, S., Babbitt, C. J., Hume, J. R., Gertz, S. J., Irby, K., Clouser, K. N., Cvijanovich, N. Z., Bradford, T. T., Smith, L. S., Heidemann, S. M., Zackai, S. P., Wellnitz, K., Nofziger, R. A., Horwitz, S. M., Carroll, R. W., Rowan, C. M., Tarquinio, K. M., Mack, E. H., Fitzgerald, J. C., Coates, B. M., Jackson, A. M., **Young, C. C.**, Son, M. B. F., Patel, M. M., Newburger, J. W., Randolph, A. G., & the Overcoming COVID-19 Investigators (2021). Characteristics and Outcomes of US Children and Adolescents with Multisystem Inflammatory Syndrome in Children (MIS-C) Compared with Severe Acute COVID-19. *JAMA*, 325(11), 1074-1087. doi:10.1001/jama.2021.2091
17. Mehta, S., **Young, C. C.**, Warren, M. R., Akhtar, S., Shefelbine, S. J., Crane, J. D., & Bajpayee, A. G. (2021). Resveratrol and Curcumin Attenuate Ex Vivo Sugar-Induced Cartilage Glycation, Stiffening, Senescence, and Degeneration. *Cartilage*, 1947603520988768. doi:10.1177/1947603520988768
18. **Young, C. C.**, Vedadghavami, A., & Bajpayee, A. G. (2020). Bioelectricity for Drug Delivery: The Promise of Cationic Therapeutics. *Bioelectricity*, 2(2), 68-81. doi:10.1089/bioe.2020.0012

Non-Peer-Reviewed Publications

1. Byrne, J. D., Shakur, R., Collins, J. E., Becker, S., **Young, C. C.**, Boyce, H., & Traverso, G. (2020). Prophylaxis with Tetracyclines in ARDS: Potential Therapy for COVID-19-induced ARDS? *medRxiv*. doi:10.1101/2020.07.22.20154542

CONFERENCE PRESENTATIONS

1. Boyce H., **Young C.C.**, Wawer K. "How to Run a Career Meeting: Interview Preparation, Resume Review, and LinkedIn Help," *2021 Virtual AIChE Annual Meeting*; 2020 November 13; Virtual.
2. Byrne J.D., **Young C.C.**, Pursley J., Remilard K., Edgington S., Schoenfeld J.D., Traverso G. "Personalized radiation attenuating materials for mucosal protection," *American Physical Society*; 2020 March 2; Denver, CO.
3. **Young C.C.**, Mehta S., Warren M., Bajpayee A.G. "Role of Advanced Glycation End Products in Age Related Osteoarthritis," *American Society of Biochemistry and Molecular Biology Northeast Regional Meeting*; 2019 November 3; Boston, MA.
4. **Young C.C.**, Mehta S., Warren M., Bajpayee A.G. "Role of Advanced Glycation End Products in Age Related Osteoarthritis," *Northeastern University Research, Innovation and Scholarship Expo*; 2019 April 4; Boston, MA.
5. **Young C.C.**, Mehta S., Warren M., Bajpayee A.G. "Role of Advanced Glycation End Products in Age Related Osteoarthritis," *Harvard University National Collegiate Research Conference*; 2019 January 24-26; Cambridge, MA.

VOLUNTEER EXPERIENCE

Boston Children's Hospital

Inpatient Volunteer and New Volunteer Trainer

June 2018 – June 2022

- Dedicated over 500 hours of volunteering in the General Medicine, Complex Care, and Intermediate Care Units and facilitating new volunteer training
- Interacted with patients and families to provide games, activities, food, and other items, either at bedside or in Activity Room to create a friendly and welcoming environment for all at the hospital
- Assisted staff in comforting and distracting patients, running errands, and cleaning
- Gained meaningful insight into the perspective of both medical professionals and patients in the hospital setting

Boston Public Health Commission

Emergency Clinical Volunteer

April 2020 – June 2020

- Provided hands-on medical support at an emergency homeless shelter in Boston in response to the COVID-19 pandemic for 24 hours per week according to the EMT scope of practice
- Assessed residents' conditions, monitored chronic illnesses, and ensured access to prescribed medications, as primary on-site medical provider for 80 residents

WORK EXPERIENCE

Hinkley Pond, Medfield, MA

Head Lifeguard

Summers 2015 – 2018

- Managed team of 25 lifeguards, created schedules, assessed employees' performance, and executed disciplinary action
- Tasked with opening and closing beach area, water testing, and member conflict resolution

Various Soccer Leagues in the Greater Boston Area

Grade 8 Soccer Referee

September 2012 – May 2018

- Referee for various leagues in the Boston Area: Boston Area Youth Soccer (BAYS), Northeast Soccer League (NSL), and New England Premiership (NEP)
- Selected to referee in several high-level tournaments including Needham Memorial Day Tournament, Massachusetts State Cup, and Massachusetts Tournament of Champions
- Young Referee of the Tournament, Needham Memorial Day Tournament, 2018
- Honorable Mention, Massachusetts State Referee Committee's award for Young Referee of the Year, 2017

PROFESSIONAL SKILLS

Laboratory: Cell and Tissue Culture, Biochemical Assay Development, HPLC, Centrifugation, Tissue Homogenization, Confocal Microscopy, Western Blotting, Tissue Dissection, Small Animal Handling, Media Preparation, Data Analysis, Literature Review, Figure Preparation, Grant and Manuscript Writing

Mechanical: 3D Printing, Soldering, Silicone Molding, Metal Casting, Milling

Software Knowledge: SolidWorks, AutoCAD, MATLAB, ImageJ, Meshmixer, PreForm, Epic EMR, PowerChart EMR, REDCap, Microsoft Excel, Microsoft PowerPoint

Programming Languages: R, Python, C++, HTML, CSS, Arduino

COURSE WORK

Northeastern University

GPA: 3.96

Capstone II: Process Design Capstone I: Design and Process Analysis, Biochemistry & Lab, Bioanalytical Chemistry & Lab, Kinetics, Process Control, Chemical Engineering Design Lab I & II, Thermodynamics I, Thermodynamics II, Transport Processes I, Transport Processes II, Conservation Principles, Introduction to the Spectroscopy of Organic Compounds & Lab, Organic Chemistry I & Lab, Organic Chemistry II & Lab, Microbiology & Lab, Genetics and Molecular Biology & Lab, Physics I & Lab, Physics II & Lab, Advanced Writing in the Technical Disciplines, General Chemistry for Engineers, Differential Equations and Linear Algebra, Biostatistics & Lab, Calculus III, Cornerstone of Engineering I & II, First Year Writing, Emergency Medical Technician Training, Foundations of Coordinated Patient Care

CAMPUS INVOLVEMENT

University of Cambridge

Churchill College Middle Combination Room

First Year Representative (October 2022 – Present)

Northeastern University

American Institute of Chemical Engineers, Northeastern Student Chapter

Treasurer (August 2020 – August 2021)

President (August 2019 – August 2020)

Webmaster and E-Board Member (August 2018 – August 2019)

STEM Committee Member (September 2017 – August 2018)

College of Engineering

Peer Mentor and Tutor (September 2018 – May 2022)

Interfraternity Council

Director of Recruitment (December 2019 – December 2020)

International Society of Pharmaceutical Engineers, Northeastern Student Chapter
Member (September 2017 – May 2022)

Northeastern Science Magazine
Staff Writer (September 2018 – May 2019)

Omega Xi Epsilon – Chemical Engineering Honor Society
Member and Peer Mentor (September 2020 – May 2022)

Sigma Xi – Scientific Research Honor Society
Scholarship Chair (January 2022 – Present)
Research Immerse Program Peer Mentor (September 2020 – May 2022)
Associate Member and Peer Mentor (September 2020 – May 2022)

Tau Beta Pi – Engineering Honor Society
Member (November 2019 – May 2022)