

Dr. Christopher M. Troy
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Date of Preparation: July 2021

Personal Data:

Name Christopher Troy
Birthplace Ithaca, NY
Citizenship USA

EDUCATION

07/2021 - Present	University of Tennessee Health Science Center Neurosurgery Residency, Expected Completion June 2028	Memphis, TN
08/2017 - 05/2021	Columbia University College of Physicians and Surgeons MD, May 2021	New York, NY
08/2011 - 05/2015	Hobart College (HWS) Bachelor of Sciences in Chemistry, Bachelor of Arts in Spanish, May 2015 Cumulative GPA: 3.910 <i>Summa Cum Laude</i>	Geneva, NY

HONORS AND AWARDS

05/2015	Phi Beta Kappa
05/2015	Dean's Citizenship Award
05/2015	George M. Ashmun '41 Memorial Prize in Pre-Med
05/2014	Eaton-Cross Prize for excellence in Biology and Chemistry
05/2013	The Chimera Society – junior honor society
05/2012	The Orange Key Society – sophomore honor society
05/2012	CRC Press Chemistry Achievement Award for notable achievement in Chemistry
08/2011	Wood Scholarship – awarded to the most academically outstanding incoming Hobart student

RESEARCH

03/2020 – Present	New York Presbyterian-Columbia , Department of Pediatric Hematology-Oncology, New York, NY <ul style="list-style-type: none">- Review of pediatric thalamic gliomas and recent developments in prognostication using molecular sequencing. Manuscript has been written and is undergoing revisions prior to submission.- Meta-analysis of pediatric thalamic glioma literature to determine the survival benefit conferred by greater extent of tumor resection and effect on outcomes of various genetic mutations. Registered the project with the PROSPERO registry system. Data collection and analysis from multiple original studies is underway.- Using whole exome sequencing to identify genetic mutations present in thalamic gliomas in a cohort of pediatric patients treated at NYP-Columbia, NYP-Cornell. Memorial Sloan Kettering Cancer Center, Dana Farber Cancer Institute. Analysis to determine mutation effects on prognosis, survival and treatment response. Wrote the IRB application and protocol, which has been submitted and approved by the Columbia IRB. Solely responsible for an initial literature review with subsequent data collection and database creation. Data collection is ongoing.- Meta-analysis of pediatric medulloblastoma literature to determine effects of histology on survival. The drafting process has begun and the manuscript is being revised in-house by the group prior to submission. Mentor: Dr. Stergios Zacharoulis, MD
07/2020 - Present	New York Presbyterian-Columbia , Department of Neurosurgery, New York, NY <ul style="list-style-type: none">- Case series investigating the use of pre-operative pseudoephedrine for blood pressure optimization prior to encephaloduroarteriosynangiosis (EDAS). Developed the protocol and wrote the IRB approval application. Was responsible for data collection and analysis. Wrote the manuscript which is currently undergoing revisions prior to submission.- Mentor: Dr. E. Sander Connolly, MD

- 04/2020 - Present **New York Presbyterian-Columbia**, Department of Radiation Oncology, New York, NY
- Review of focused ultrasound and its use for disrupting the blood-brain barrier in the treatment of CNS diseases. Manuscript has been written and submitted for publication in the journal Applied Radiation Oncology.
 - Creation of a database of patients treated at NYP-Columbia with gamma-knife surgery for arteriovenous malformations of the brain. The database includes over 300 patients from both adult and pediatric populations. Data collection and entry is ongoing.
 - Mentor: Dr. Cheng-Chia Wu, MD, PhD
- 04/2020 – 05/2020 **Columbia University COVID Clinical Database and Biobank**, New York, NY
- Data manager who worked with the Epic electronic medical record and REDCap software to extract clinical, laboratory, and vital signs flowsheet data from the electronic medical record to ascertain measures of lung injury and multi-organ failure in patients hospitalized with COVID-19 during the height of the SARS-CoV2 pandemic in New York City.
 - Mentor: Dr. Matthew R. Baldwin, MD, MS, Herbert Irving Assistant Professor of Medicine.
- 04/2020 – 05/2020 **New York Presbyterian-Columbia**, Department of Medicine, New York, NY
- Hydroxychloroquine for post-exposure prophylaxis for COVID-19
 - Data manager responsible for screening patients diagnosed with COVID-19 at NYP-Columbia for a large randomized controlled clinical trial investigating the efficacy of hydroxychloroquine prophylaxis in preventing infection of household contacts. Project was ultimately terminated due to published results concerning the inefficacy of hydroxychloroquine in the treatment of COVID-19.
 - Mentor: Dr. Jon Giles, MD
- 06/2018 – 08/2018 **New York Presbyterian-Columbia**, Department of Pediatric Surgery, New York, NY
- As part of VP&S's Program for Global and Population Health, in partnership with the Department of Surgery at CUMC, analyzed the status of the trauma registry at Hospital Regional de Loreto in Iquitos, Peru and identified barriers to its sustainability. Worked with physicians and residents to streamline the process of using the trauma registry and adjusted it to better meet their needs. Gathered preliminary data on trauma patients' presentations, demographics, care, and outcomes. Presented abstract and poster at VP&S's Program for Global and Population Health's annual symposium.
 - Mentor: Dr. Vincent Duron, MD
- 06/2014 – 08/2014 **Ann & Robert H. Lurie Children's Hospital**, Division of CT Surgery, Chicago, IL
- Compared efficacy of coated and non-coated shunt materials in the prevention of thrombotic complication after repair.
 - Compared complication rates between chisel and mallet versus saw techniques for sternotomy in patient requiring repeat chest entry.
 - Mentors: Dr. Michael Monge, MD, Dr. Carl Backer, MD

ORIGINAL PUBLICATIONS

- CASE REPORT:

- **Troy C**, Sisti J, Maldonado-Soto A, Tosto-D'antonio G, Miller M, L, Remotti F, Mandigo G: A Case of Pediatric Stroke: Osteosarcoma Embolus in the Internal Carotid Artery. Case Rep Neurol 2021;13:269-275. doi: 10.1159/000514089

PRESENTATIONS

- **Troy, C**, Berube, E, Duron, V. The Challenges of Implementing a Trauma Registry in Iquitos, Peru. Summer Projects Symposium, Columbia University Vagelos College of Physicians and Surgeons, September 10, 2017.

ACTIVITIES

Research at P&S (RAPS)/Medical Scholars Seminar (MSS) Program, August 2017-December 2018
 Global Health Lecture Series - August 2017-May 2018

Independent Study in Global and Population Health - Fall 2018
Research Methods in Global and Population Health - Spring 2018
Introduction to Global/Population Health - Fall 2017

Biomedical Design Lecture Series - Fall 2018

Introduction to Biostatistical Methods - Summer 2018

Epidemiology I - Fall 2018

Avatar, Surgery Clerkship, March 2020-May 2021

The clerkship avatar is a senior medical student who acts as a confidential resource and guide for students in the clinical rotation year. This is a faculty-selected position, with responsibilities ranging from assisting the education fellow with coordinating clerkship orientation and lectures, to providing help and guidance to students currently on the rotation.

Advisor: Dr. Roman Nowygrod, MD

Clinical Correlates Leader, March 2020-May 2021

Clinical Correlates is a course taught by fourth-year students that teaches pre-clinical students the foundations of differential diagnosis and physical examination. The purpose of the course is twofold-- to introduce fourth-year medical students to the art of bedside teaching and to help facilitate preclinical students' transition to a clinically-oriented educational environment. As a leader, responsibilities included organizing the topic and class schedule, coordinating recruitment of teachers and students, and working with advisor Dr. Lee to maximize the educational benefits for all involved. As an instructor, responsibilities included developing a lesson plan and conducting bedside teaching sessions based around a particular chief complaint, with an emphasis on history-taking, physical examination techniques, appropriate clinician-patient interactions, and the development of a differential diagnosis.

Advisor: Dr. Paul Lee, MD, MPH

Coach, Ice Hockey in Harlem, November 2018-March 2021

Helped to coach ice hockey for multiple seasons through Ice Hockey in Harlem, an organization focused on improving social and academic wellbeing of children in the Harlem community. Coached at the 'Learn to Skate' and 'Learn to Play' levels, with players aged 6-10 years old.

Columbia Office for Global Surgery, Student Steering Committee, January 2018-January 2019

AANS Student Interest Club, Columbia University, Member, September 2017-May 2021

Free Weight Club, Columbia University, Member, August 2017-July 2019

Hobart Club Hockey

Theta Delta Chi, President

SKILLS

Language: Near native proficiency in Spanish

Biostatistics, Epidemiology, Computer: Microsoft Office (Word, PowerPoint, Excel, Outlook), REDCap

Interests: ice hockey, squash, golf, fly fishing, landscaping/stone work, photography, guitar, fantasy football