

George Saieed

Pittsburgh, PA

(412) 417-9805

gms77@case.edu; georgesaieed.com

EDUCATION

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| 2019 – 2024 | Case Western Reserve University School of Medicine <ul style="list-style-type: none">▪ Doctor of Medicine (expected)▪ Health Innovation & Entrepreneurship Pathway |
| 2022 – 2023 | Kellogg School of Management, Northwestern University <ul style="list-style-type: none">▪ Master of Business Administration (expected) |
| 2015 – 2019 | University of Chicago <ul style="list-style-type: none">▪ Bachelor of Arts, Neuroscience |

HONORS AND AWARDS

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| 2023 | Franklin W. Neunuebel Memorial Scholarship (Kellogg School of Management) |
| 2020 | CWRU School of Medicine Dean's Summer Research Award |
| 2017 – 2018,
2016 – 2017,
2015 – 2016 | University of Chicago Dean's List |
| 2015 | Egyptian Education Foundation Scholarship Award |

WORK EXPERIENCE

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| Sept 2015 – Present | GMS Photography
<i>Professional Photographer</i> <ul style="list-style-type: none">▪ Filmed Groupwerk Dance Troupe at a Chicago Bull's basketball halftime show▪ Photograph a variety of proposals, holiday events, and headshots▪ Featured in the Chicago Tribune:<ul style="list-style-type: none">○ https://www.chicagotribune.com/lifestyles/ct-life-illinois-sexual-misconduct-conference-20181108-story.html |
| Nov 2022 – Present
Aug – Nov 2020 | Adobe Inc.
<i>Visual & Special Effects Artist</i> <ul style="list-style-type: none">▪ Use Adobe After Effects and Blender 3D to create superhero-style special effects videos for Adobe Video (@adobevideo) to post on Twitter and Instagram |
| Jan 2023 – Mar 2023 | SmartHealth Catalyzer Chicago, IL
<i>Venture Analyst Intern</i> <ul style="list-style-type: none">▪ SmartHealth Catalyzer is a venture studio that builds startups around promising biomedical research from Midwest universities and research hospitals▪ Performed scientific and market diligence on promising therapeutics which was presented to the executive team each week |

- Oct 2019 – May 2022 **CWRU School of Medicine Assessment Committee**
Consultant
- Served as liaison between the committee and the student body
 - Spearheaded a complete overhaul of the school's assessment portal, using Sketch to re-design the platform
 - Built a website to assist with communication between the school's administration / faculty and students during the COVID-19 crisis
- July – Sept 2021 **Wyndly**
Educator / Animator
- Wyndly is a tele-health company that aims to make treating allergies simpler using sublingual immunotherapy (SLIT)
 - Wrote educational material to help patients better understand their allergies, their immune system, and how different types of treatments help them
 - Created an animation to explain the mechanism of action of SLIT
 - <https://www.wyndly.com/pages/immunotherapy>
- June – Aug 2018 **JPMorgan Chase & Co. | Jersey City, NJ**
Summer Technology Analyst
- Used AngularJS to code several new features for an internal company application used by a large portion of the employees at the company
- June – Sept 2017 **Accenture | Chicago, IL**
Summer Technology Analyst
- Used Angular2 and React to code the front-end of several client demo applications, one of which helped close an \$80 million deal.
 - Wrote functional tests using Cucumber / Selenium and unit tests using Jasmine.
- May – Nov 2016 **Explorer, a GHX Company (formerly ExplORer Surgical) | Chicago, IL**
Technical Operations Intern
- Explorer is a digital surgical playbook that also allows for remote monitoring of surgical procedures
 - Helped develop training videos and maintain HIPAA compliance.

RESEARCH EXPERIENCE

- Apr 2023 – Present **University Hospitals, Ear, Nose & Throat Services**
PI: Sarah Mowry, MD
Project: “The Incremental Economic Burden of Concurrent Depression in Hearing Loss Patients: A MEPS Study”
- Aided with manuscript writing, manuscript currently in progress
- May 2022 – Present **Cleveland Clinic, Head & Neck Institute**
PI: Sarah Sydlowski, AuD, PhD, MBA
Project: “An Updated Approach to Predicting Cochlear Implant Candidacy”
- Aided with experimental design and data collection
 - Accepted to Cochlear Implants Conference 2023
 - Manuscript currently in progress

Oct 2021 – Present	<p>Cleveland Clinic, General Surgery</p> <p><i>PIs: Ajita Prabhu, MD / Michael Rosen, MD</i></p> <p><u>Project:</u> “The Impact of Comorbidities on Postoperative Outcomes of Ventral Hernia Repair: The Patients’ Perspective”</p> <ul style="list-style-type: none"> ▪ Aided with experimental design, data collection, and manuscript writing ▪ Manuscript submitted to Hernia
July 2021 – Present	<p>University Hospitals, Radiation Oncology</p> <p><i>PI: Tithi Biswas, MD</i></p> <p><u>Project:</u> “Leveraging Multi-domain Health Technology and Informatics: A Group Effort Toward a Clinical Decision Tool in Stereotactic Body Radiotherapy”</p> <ul style="list-style-type: none"> ▪ First author manuscript of a systematic review on the role of deep learning in stereotactic body radiation therapy (SBRT) in progress ▪ Featured in the 2021 AMA Accelerating Change in Medical Education initiative ▪ Abstract on utilizing deep learning to predict survival after SBRT for liver metastases accepted to American Society for Radiation Oncology 2022 conference, subsequently published in the Red Journal ▪ Abstract on utilizing deep learning to generate synthetic PET images for patients with NSCLC accepted to American Society for Radiation Oncology 2022 conference, subsequently published in the Red Journal ▪ Abstract on analyzing the predictive value of PET images and invasive nodal staging in patients with early-stage NSCLC undergoing SBRT accepted to the Radiological Society of North America 2022 conference ▪ Featured in The Daily, CWRU’s daily internal communications newsletter
2020 – Present	<p>University Hospitals, Ear, Nose & Throat Services</p> <p><i>PI: Kenneth Rodriguez, MD</i></p> <p><u>Project:</u> “Patient Presentation, Diagnosis, and Treatment Trends: A Rhinology Tertiary Care Practice Experience”</p> <ul style="list-style-type: none"> ▪ Aided with experimental design, data collection, and manuscript writing ▪ Manuscript currently in progress
2020 – 2022	<p>Cleveland Clinic, Head & Neck Institute</p> <p><i>PI: Mohamad Chaaban, MD</i></p> <p><u>Project:</u> “Chronic Rhinosinusitis is Associated with Increased Risk of COVID-19 Hospitalization”</p> <ul style="list-style-type: none"> ▪ Aided with experimental design, data collection, and manuscript writing ▪ Published in American Journal of Otolaryngology ▪ Included in Elsevier 2022 Public Health Emergency Collection
2017 – 2019	<p>University of Chicago, Computational Neuroscience</p> <p><i>PI: Nicholas G. Hatsopoulos, PhD</i></p> <p><u>Project:</u> “Predicting Movement Using Neural Data”</p> <ul style="list-style-type: none"> ▪ Implemented use of neural nets to derive kinematic data from mp4 video footage of macaques via Python, Tensorflow, and the modification of the existing Tensorflow package DeepLabCut

TEACHING EXPERIENCE

- Apr 2023 – Present **Clinical Skills Preceptor, Foundations of Medicine and Health**
Case Western Reserve University School of Medicine
Course Director: Oliver Schirokauer, MD, PhD
- Facilitate communication and physical diagnosis workshops for first and second year medical students
- July – Aug 2020 **Teaching Assistant, Gross Radiology and Living Anatomy**
Case Western Reserve University School of Medicine
Course Director: Susanne Wish-Baratz, PhD, MBA
- Facilitated a weekly session to teach first year medical students human anatomy
- June – Dec 2020 **Teaching Assistant, Research and Scholarship**
Case Western Reserve University School of Medicine
Course Director: Colleen Croniger, PhD
- As a first-year medical student, instructed second year students on the process of developing a remote research project, basic statistics, and data analysis in R
 - Created teaching modules for applying statistical analyses to open source data in R
- 2018 – 2019 **Teaching Assistant, Neuroscience and Biology**
University of Chicago
- As primary laboratory TA for the **Mathematical Modeling for Pre-Med. Students** course (Mar 2018 – Jun 2018), I taught students to use the programming language R for statistical data analysis. I oversaw the other lab teaching assistants along with any lab related action items. I wrote and graded the weekly labs, quizzes, and presentations administered to all students, in addition to weekly summaries to help them prepare.
 - As a lecture TA for **Systems Neuroscience** (Mar 2018 – Jun 2018), **Fundamental Neuroscience** (Sep 2018 – Dec 2018), **Perspectives of Human Physiology** (Sep 2018 – Dec 2018), and **Cellular Neuroscience** (Jan 2019 – Mar 2019), my responsibilities included grading papers, quizzes, and exams, in addition to holding weekly office hours and review sessions.
 - As a grading TA for **Microbial and Human Cell Biology** (Jan 2019 – Mar 2019), I was responsible for grading quizzes and exams.

COMMUNITY SERVICE

- 2011 – Present **St. Mary Coptic Orthodox Church | Pittsburgh, PA**
- Built and maintain <http://stmarypgh.org/>
 - Set up and maintain all technology systems as part of a subcommittee of the Board of Directors
 - Serve food at a community center (Center for Hope) every Thanksgiving Day
 - Teach Sunday School and help run summer kids' camps

- 2022 – Present **St. Mary Coptic Orthodox Church** | Chicago, IL
- Teach Sunday School and help run kids’ camps and young adult retreats
- 2019 – 2022 **St. Mark Coptic Orthodox Church** | Cleveland, OH
- Teach Sunday School and help run kids’ camps and young adult retreats
- 2019 – 2020 **John Hay School of Science and Medicine** | Cleveland, OH
- Tutored students in biology, chemistry, physics, SAT prep, and ACT prep
- 2019 – 2020 **Case Western Reserve University School of Medicine** | Cleveland, OH
- Taught high school students anatomy and physiology

LEADERSHIP

- 2022 – Present **Coptic Medical Association of North America**, Student Chapter
Technology Director / Conference Logistics Committee Member
- Responsible for overseeing the association website and blog
 - Help with registration and day-of logistics for our annual conference
- 2022 – 2023 **Kellogg Student Association**, Kellogg School of Management
1-Year Program Careers Executive Director
- As a board member of student government, responsible for relaying information between the student body and the Careers Management Center
 - Spearheaded the development of an interview preparatory group course for incoming one year MBA students, to be piloted in the summer of 2023
- 2022 – 2023 **Kellogg Business of Healthcare Conference**, Kellogg School of Management
Director of Logistics
- Oversaw registration and logistics for Kellogg’s largest student-run conference
- 2020 – 2021 **Technology in Medicine**, CWRU School of Medicine
Co-President / Co-Founder
- Co-founded and co-lead an interest group for medical students looking to learn more about innovation in healthcare
 - Planned various talks by guest industry leaders
 - Developed modules for data analysis in R, which were subsequently used for an elective at the medical school

2019 – 2021	Doc Opera, CWRU School of Medicine <i>Technical Director ('20-21)</i> <ul style="list-style-type: none"> Directed Doc Opera, a fundraising event for the school's Student Run Health Clinic (SRHC). It is a full-blown musical show entirely written, directed, and performed by students which reaches over 1,000 guests per show and typically raises tens of thousands of dollars for the SRHC. Oversaw, filmed, and edited the majority of 20 music videos that we created to replace the live performance due to the COVID-19 pandemic Performed and sang in the musical Despite the pandemic, we broke the previous year's fundraising total to raise almost \$25,000 dollars
2019 – 2021	Doc-appella, CWRU School of Medicine <i>Co-Director / Vocalist / Beatboxer</i> <ul style="list-style-type: none"> Ran and coordinated logistics for the school of medicine's a cappella group
2019 – 2021	Admissions, CWRU School of Medicine <i>Interviewer / Tour Guide</i> <ul style="list-style-type: none"> Interviewed prospective applicants for the admissions committee Gave prospective students and interviewees comprehensive tours of the Health Education Campus and answered any related admissions questions
2019 – 2020	Committee of Student Representatives, CWRU School of Medicine <i>Technology Representative</i> <ul style="list-style-type: none"> Served as a board member of student government and liaison between the school of medicine Information Technology (IT) department and the student body Responsible for running the student government website
2017 – 2018	Uncommon Hacks, University of Chicago <i>Technology Team Lead</i> <ul style="list-style-type: none"> Oversaw the technology team for UChicago's hackathon, a 24-hour event where 250 students from all over the country came in order to build new web and mobile technologies Coordinated all websites and technology, as well as registration
2017 – 2018	Run for Cover A Cappella, University of Chicago <i>President</i> <ul style="list-style-type: none"> Oversaw all logistics for the group, including rehearsals, gigs, performances, fundraising, and upcoming album release

BIBLIOGRAPHY

Peer Reviewed Articles

1. Blake K, Perlmutter B, **Saieed G**, Al-deen Said S, Maskal S, Petro C, Krpata D, Rosen M, Prabhu A. 2023 Feb. "The Impact of Comorbidities on Postoperative Outcomes of Ventral Hernia Repair: The Patients' Perspective." Manuscript submitted for publication.
2. Sbeih F, Gutierrez J, **Saieed G**, Chaaban MR. "Chronic rhinosinusitis is associated with increased risk of COVID-19 hospitalization." *Am J Otolaryngol.* 2022 Jul-Aug;43(4):103469. doi: 10.1016/j.amjoto.2022.103469. Epub 2022 Apr 9. PMID: 35576660; PMCID: PMC8993453.

Published Abstracts

1. Nam K, Arsenault T, Baydoun A, Amini A, **Saieed G**, Abou Zeidane R, Bhat SS, Bailey L, Sachdeva R, Chow R, Chu W, Liu H, Chung HT, Schellenberg D, Swaminath A, Lock MI, Podder TK, Biswas T. "Development of a Support Vector Machine-Based Tool for Survival Prediction after Stereotactic Body Radiotherapy for Liver Metastases Using Multi-Institutional Data." *International Journal of Radiation Oncology*Biology*Physics*; 2022; 114(3):e122. doi: 10.1016/j.ijrobp.2022.07.942.
2. Bhat SS, Arsenault T, Baydoun A, Bailey L, Amini A, George B, Nam K, **Saieed G**, Abou Zeidane R, Uk Heo J, Muzic RF, Biswas T, Podder TK. "Synthetic FDG-Positron Emission Tomography Images for Patients with Non-Small Cell Lung Cancer: A Deep Learning-Based Approach Using Computed Tomography Images." *International Journal of Radiation Oncology*Biology*Physics*; 2022; 114(3):e127-e128. doi: doi.org/10.1016/j.ijrobp.2022.07.953.

Oral Abstract Presentations

1. Sydlowski SA, Duggal R, **Saieed G**, Belinsky A, Everiss Weaver R. "An updated approach to predicting cochlear implant candidacy." *CI2023: Cochlear Implants in Adults and Children*; Dallax, TX (2023). (To be presented by Sydlowski SA in June 2023).
2. George B, Baydoun A, Bhat SS, Bailey L, **Saieed G**, Arsenault T, Amini A, Sun Y, Podder T, Biswas T. "18F-FDG-Positron Emission Tomography and Invasive Nodal Staging in Patients Treated with Stereotactic Body Radiation Therapy for Early-Stage Non-Small Cell Lung Cancer: A Single Institution Experience." *Radiological Society of North America*; Chicago, IL (2022). (Presented by George B, featured by CWRU's The Daily Magazine).

Poster Presentations

1. Blake K, Perlmutter B, **Saieed G**, Al-deen Said S, Maskal S, Petro C, Krpata D, Rosen M, Prabhu A. "The Impact of Comorbidities on Postoperative Outcomes of Ventral Hernia Repair: The Patients' Perspective." *Abdominal Core Health Quality Collaborative Quality Improvement Summit*; Denver, CO (2023). (Poster presented by Blake K).
2. Nam K, Arsenault T, Baydoun A, Amini A, **Saieed G**, Abou Zeidane R, Bhat SS, Bailey L, Sachdeva R, Chow R, Chu W, Liu H, Chung HT, Schellenberg D, Swaminath A, Lock MI, Podder TK, Biswas T. "Development of a Support Vector Machine-Based Tool for Survival Prediction after Stereotactic Body Radiotherapy for Liver Metastases Using Multi-Institutional

- Data.” *American Society of Radiation Oncologists*; San Antonio, TX (2022). (Poster presented by Nam K).
3. Bhat SS, Arsenault T, Baydoun A, Bailey L, Amini A, George B, Nam K, **Saieed G**, Abou Zeidane R, Uk Heo J, Muzic RF, Biswas T, Podder TK. “Synthetic FDG-Positron Emission Tomography Images for Patients with Non-Small Cell Lung Cancer: A Deep Learning-Based Approach Using Computed Tomography Images.” *American Society of Radiation Oncologists*; San Antonio, TX (2022). (Poster presented by Bhat SS).
 4. Sbeih F, Gutierrez J, **Saieed G**, Chaaban MR. “Chronic rhinosinusitis is associated with increased risk of COVID-19 hospitalization.” *CWRU School of Medicine Lepow Day*; Cleveland, OH (2021). (**Poster presented by Saieed, G**)
 5. McConaghy K, Jackson E, **Saieed G**, Patil N, Rodriguez K. “Trends in Rhinology: Patterns in the Treatment of Sinus Concerns.” *CWRU School of Medicine Lepow Day*; Cleveland, OH (2020). (Poster presented by Jackson, E).

Non-Peer Reviewed Publications

1. **Saieed G**, Abou Zeidane R, Baydoun A, Arsenault T, Nahal CE, George B, Bailey L, Bhat S, Nam K, Podder T, Biswas T. “The Role of Deep Learning in Stereotactic Body Radiotherapy: A Systematic Review.” *PROSPERO*. 2021 CRD42021267728
2. Baydoun A, Arsenault T, Podder T, Bailey L, Bhat S, Chen L, George B, Nam K, **Saieed G**, Biswas T. “Leveraging Multi-domain Health Technology and Informatics: A Group Effort Toward a Clinical Decision Tool in Stereotactic Body Radiotherapy.” *AMA: Medical Students, Residents and Fellows Making an Impact*. 2021.

PROJECTS

March 2020

COVID-19 Healthcare Hotline Finder

Co-Creator

- Took local health county cases/deaths data on COVID-19 (using The New York Times data) and on local health departments (using NACCHO) and created a Twilio bot, exposed it as an API, and built a dynamic visualization in R Studio with Leaflet. Go to <http://covid19.georgesaieed.com/> for more information.

MEMBERSHIPS

American Medical Association

Languages: Proficient in Arabic

Computer Languages: HTML, CSS, jQuery, Java, Javascript, Python, C#, R, Angular4, ReactJS

Computer Software: Adobe Photoshop, Adobe Lightroom, Adobe After Effects, Adobe Premiere, Blender, MATLAB, Sketch

Interests: Piano, Beatboxing, Photography, 3D Modeling & Visual FX, Squash, Skiing