

Oliver Clark

INTERNAL MEDICINE RESIDENT · GENETIC ONCOLOGY RESEARCH · HEMATOLOGY/ONCOLOGY · COMPUTER SCIENCE

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Education and Training

University of Pennsylvania - Pennsylvania Hospital

[Philadelphia, United States](#)

PGY-2 RESIDENT IN INTERNAL MEDICINE

July 2021 - Present

- Electives in Hematology/Oncology outpatient clinic (UPenn), Solid Oncology (UPenn)
- Graduate Medical Education committee and Safety committee member

University College Dublin

[Dublin, Ireland](#)

DEGREE IN MEDICINE - MB BCH BAO

Sept 2017 - May 2021

- Broad course topics in Anatomy, Oncology + Immunopathology, Cardiology, Pulmonology, Neurology
- Electives in Independent Research, Pulmonary Critical Care

McGill University

[Montreal, Canada](#)

BACHELOR OF SCIENCE

Sept 2012 - Dec 2016

- Major in Biology, Minors in Mathematics and Computer Science
- Courses in Human Biology, Statistics, Advanced Calculus, Algorithms and Data Structures, Software Design

Research Experience

Maxwell Lab, University of Pennsylvania

[Philadelphia, United States](#)

PHYSICIAN RESEARCHER | SUPERVISOR: KARA MAXWELL

January 2022 - Present

- Creation of Polygenic Risk Scores using human biobanks for evaluation of lung cancer risk
- Analysis of burden of DNA repair mutations in oncology patient datasets
- Extensive experience in processing of DNA microarray and Whole Exome Sequencing data

Systems Biology Ireland, University College Dublin

[Dublin, Ireland](#)

UNDERGRADUATE RESEARCHER | SUPERVISOR: MELINDA HALASZ

June 2019 - Aug 2019

- Investigated cell lines to determine better treatments for diseases of pregnancy

BHKLab, Princess Margaret Cancer Center, University of Toronto

[Toronto, Canada](#)

UNDERGRADUATE RESEARCHER | SUPERVISOR - BENJAMIN HAIBE-KAINS

June 2018 - Aug 2018

- Investigated 3 of the largest databases of cancer cell lines for biomarkers of cancer drug response
- Acquired extensive experience in R programming, RNA data processing, Machine Learning, and Statistics

Sakata-Woolley Songbird Lab, McGill University

[Montreal, Canada](#)

UNDERGRADUATE RESEARCHER | SUPERVISOR - SARAH WOOLLEY

January 2014 - Dec 2016

- Coordinated sensitive experiments, collaborated effectively with fellow researchers
- Acquired experience in MatLab

Publications: Journals and Abstracts

- Bassam AlHamer, **Oliver Clark**, Joshua Hitchings, Martin Harari. *Adults Onset Still's disease with concomitant splenic artery aneurysms*. Abstract for 2022 SGIM Mid-Atlantic Regional Meeting. [Accepted]
- **Oliver Clark**, Areej Mahjoub, Nily Osman, Ann-Marie Surmava, Saber Jan, Ana Marissa Lagman-Bartolome. *Non-invasive neuromodulation in the acute treatment of migraine: a systematic review and meta-analysis of randomized controlled trials*. *Neurol Sci*. 2022 Jan;43(1):153-165. doi: 10.1007/s10072-021-05664-7. Epub 2021 Oct 26. PMID: 34698941. [Link]
- **Oliver Clark**, Melinda Halasz. *Investigating the role of galectin-9 in trophoblast invasion*. Conference Abstract Booklet. URNCST Journal 3 (2019). [Link]
- **Oliver Clark**, Zhaleh Safikhani, Petr Smirnov, Benjamin Haibe-Kains. *Gene isoforms as expression-based biomarkers predictive of drug response in vitro*. Abstract in *Ir J Med Sci* 187 (Suppl 11), 325-354 (2018). [Link]
- Yining Chen, **Oliver Clark**, Sarah C. Woolley. *Courtship song preferences in female zebra finches are shaped by developmental auditory experience*. *Proc Biol Sci*. 2017 May 31;284(1855):20170054. doi: 10.1098/rspb.2017.0054.

Publications: Posters and Presentations

- **Oliver Clark**, Heena Desai, Kara Maxwell. *Polygenic risk scores for prediction of lung cancer: Using genetic markers to improve lung cancer screening*. Presentation at Pennsylvania Hospital Research Day. May 2022.
- **Oliver Clark**, Tamara Mahr. *Case report of Massive Intentional Amlodipine Overdose*. Presentation at Pennsylvania Hospital Internal Medicine Noon Conference. October 2021.
- **Oliver Clark**, Melinda Halasz. *Investigating the role of galectin-9 in trophoblast invasion*. Poster and Finalist Presentation at the Irish Student Medical Summit 2019. [\[Link\]](#)
- **Oliver Clark**, Zhaleh Safikhani, Petr Smirnov, Benjamin Haibe-Kains. *Determining Biomarkers predictive of in vitro drug response using Gene Expression*. Poster and Finalist Presentation at the UCD School of Medicine Summer Student Research Awards 2018. [\[Link\]](#)
- **Oliver Clark**, Zi Hui Su, Sarah C. Woolley. *Courtship Song Preferences in Female Isolate Zebra Finches*. Poster presented at McGill Academia Fair; 2016 Mar 22; Montreal, QC, Canada.

Honors & Awards

2021	UCD Professional Completion Course , Shortlisted in the Top 10 Students	Dublin, Ireland
2019	Pathological Society UK , Undergraduate Research Bursary	Dublin, Ireland
2019	Irish Student Medical Summit , Undergraduate Researcher of the Year	Dublin, Ireland
2018	UCD Student Summer Research Awards , Gold Medal Finalist	Dublin, Ireland
2016	McGill Academia Fair , Best Visual Poster	Montreal, Canada
2016	CIS Academic All Canadian Award , Cross Country Running Team and >3.7 GPA	Montreal, Canada
2016	McGill Student-Athlete Honour Roll , Cross Country Running Team and Overall >3.5 GPA	Montreal, Canada
2015	CIS Academic All Canadian Award , Cross Country Running Team and >3.7 GPA	Montreal, Canada

Skills

- Languages: English (Native) • French (Fluent) • Spanish (Basic)
- Qualifications: ACLS (Oct 2022) • BLS (Oct 2020) • NIH "All of Us" database controlled tier user
- Computer Programming: R • Bash • Python • C • Matlab • Plink • HTML

Extracurricular Activities

- Current member of **GME committee and Safety committee** (Pennsylvania Hospital, 2022-present)
- **Avid piano player**, previously awarded Grade 8 Royal Conservatory of Music qualification
- **Active swimmer and runner**, former McGill swimming (2012-14) and cross country teams (2014-16)