

# Ujas Patel

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## Education

**University of Toronto**  
*MSc in Medical Sciences*

Sept 2021 – Mar 2024

◦ **Thesis:** [Uncovering the mechanism of HDAC3-mediated radiosensitization in small cell lung cancer](#)

**University of Toronto**  
*HBSc in Life Sciences*

Sept 2016 – Jun 2020

- GPA: 4.0/4.0

## Skills

**Laboratory:** Cell Cultures, Aseptic Techniques, Molecular Biology and Cloning Techniques, Nucleic Acids and Protein Extraction, Purification, and Quantification, Cell-based and Imaging Assays, Confocal Microscopy, Mice Models

**Softwares:** Microsoft Office, GraphPad Prism, RStudio, ImageJ FIJI, SnapGene, LICORbio Image Studio

**Research:** Data Management, Data Visualization, Manuscript Writing, Technical Reporting, Literature Reviews

## Experience

**Waypoint Bio, Inc.**  
*Associate Scientist*

Feb 2025 – Present  
New York, NY

- **Design and execute *in vivo* preclinical studies** – evaluate **CAR-T cell therapies** in solid tumor xenograft models, perform tumor and CAR-T cell injections, monitor tumor growth and study endpoints, and collect tissues for downstream analyses
- **Develop and optimize new xenograft cancer models** – culture human cancer cell lines, establish and optimize tumor cell implantation protocols
- **Data management and collaboration** – maintain detailed and traceable records of experimental data in lab notebooks and **collaborate cross-functionally with research teams** to plan studies, troubleshoot protocols, and achieve key project milestones

**University Health Network**  
*Graduate Student Researcher*

Sept 2021 – Sept 2024  
Toronto, ON

- **First-author publication** ([Patel, Shi et al. 2025](#)) in the **Journal of Molecular Cancer Therapeutics (AACR)**
- Secured **\$30,000 in research funding** from the Canadian Institute of Health Research (**CIHR**) and the Strategic Training in Transdisciplinary Radiation Science for the 21st Century (**STARS21**) Program
- **Presented research findings at scientific conferences**, including UTDRO Research Day (2024), IMS Scientific Day (2023), and NCI SCLC Consortium's Graduate Student Symposium (2023)
- Investigated the therapeutic potential and mechanism of action of HDAC3 in enhancing radiation sensitivity in small-cell lung cancer using **cell lines and xenograft models**
- Designed and executed complex ***in vitro* cell-based and fluorescence-based imaging and reporter assays** to assess radiation response and investigate molecular mechanisms

**Sleep and Human Evolution Lab at UofT**  
*Lab Manager*

Sept 2018 – Jul 2021  
Mississauga, ON

- **First-author publication** ([Patel et al. 2021](#)); **co-author publications** ([Kilius et al. 2021](#); [Reyes et al. 2021](#); [Woods et al. 2020](#))
- Collaborated with cross-functional research teams across multiple locations to design and execute studies
- **Developed resources and standardized protocols** for processing and analyzing sleep data
- Maintained the lab's sleep database for data analysis and reporting using **advanced Excel functions and RStudio**
- Trained graduate students on the lab's standardized sleep data processing workflow and best practices

## Awards

- **Richard P. Hill Award** (*Department of Radiation Oncology, University of Toronto*) - Awarded for academic excellence in research by a graduate student.
- **Ontario ‘5-year Volunteer Service’ Award** (*Brampton Civic Hospital, William Osler Health System*)
- **Jackie Hart Memorial Scholarship** (*Department of Biology, University of Toronto*) - Awarded for highest overall standing in the Biology Specialist Program.