

# Arya Patel

## Education

### **Case Western Reserve University PPSP Student: BS/MD and MPH**

AUGUST 2022- present

BS Biology, MPH with Population Health Research Concentration

Cumulative GPA: 3.962

### **Episcopal School of Baton Rouge**

AUGUST 2010-MAY 2022

Valedictorian, Cumulative GPA: 4.73

## Scientific Publications/ Presentations

- **Comparison of Acute and Late toxicities with Daily vs. Every-Other-Day Five Fraction Partial Breast Radiation Therapy**
  - Journal: Pract Radiation Oncology
  - Sean M Parker<sup>1</sup>, Ahmed Halima<sup>2</sup>, Sudha Amarnath<sup>1</sup>, Maria Claudia Moncaliano<sup>1</sup>, Arya Patel<sup>1</sup>, Connor Spera<sup>1</sup>, Elizabeth Obi<sup>1</sup>, Cole Billena<sup>1</sup>, Zahraa Al-Hilli<sup>3</sup>, Sheen Cherian<sup>1</sup>, Rahul Tendulkar<sup>1</sup>, Chirag Shah<sup>4</sup>
- **Factors Associated with Time to Surgery for Sebaceous Carcinoma**
  - Conference: SID
  - Journal: JAAD
  - Arya Patel, Omkar Pawar, Jeremy Bordeaux
- **Geospatial Impacts of Melanoma Stage at Diagnosis: A Systematic Review (poster)**
  - Dakota Hitchcock<sup>1</sup>, Angela Loczi-Storm<sup>2</sup>, Rebecca Bolen<sup>3</sup>, Arya Patel<sup>4</sup>, Robert Dellavalle MD PhD MSPH<sup>5</sup>, Cory Dunnick MD<sup>6</sup>
  - Accepted to AMA summit and “AMA Research Challenge” symposium
  - Colorado Medical Society Annual Meeting in Breckenridge, CO: 2<sup>nd</sup> place in research excellence
- **Nutrition, Obesity and Seborrheic Dermatitis: A Systematic Review**
  - Journal: Dermatology Online Journal
  - E. Woolhiser, N. Keime, Isaac Weber, Arya Patel, Madeline Adelman, R. Dellavalle
- **CANSUR Symposium Oral Presentation and Intersections Presentations**
  - Patel, A; Franklin, J; Das I.; Wald D. Investigating TIGIT Blockade potential to enhance Car-T cell function on Solid Tumors
- **SEA-PHAGES National Symposium Poster Presentation**

- Deorukhar A.; Patel, A.; etc. Characterization and Annotation of novel Azotobacter bacteriophages
- **SOURCE Undergraduate Research Symposium Poster Presentation**
  - Patel, A; Franklin, J; Das I.; Wald D; Role of TIGIT Inhibitor in Car-T Efficacy in Solid Tumor Models
- **Louisiana Science Fair Poster Presentation**
  - Patel A., Rangaswamy R. The Effect of Klebsiella Pneumoniae Endotoxins on Lung Derived Mesenchymal Stem Cell Bioenergetic Processes
  - **1st place in Biomedical Sciences**
- **Louisiana State Science and Humanities Symposium: Poster Presenter**
  - Patel A., Rangaswamy R. Immunotherapeutic potential of Lung Mesenchymal Stem Cells against endotoxic response characteristic of Klebsiella Pneumoniae
  - **1st place poster presentation**

## Other Publications

### RedTreeHouse Content Contributor: Oncology

MAY 2023-present

- Write articles on “Pro Picks” centered around oncology topics to help guide parents whose children are cancer patients
  - Recently published article: “Attending School as a Child with Cancer”

## Research Experience

### UH Hospitals Research Group- Student Researcher

August 2023-present

- PI: Dr. Bryan Carroll, Dr. Bordeaux
- Bibliometric studies and epidemiologic studies using large health databases NCDB and SEER
- Publications under review:
  - Time to definitive treatment for sebaceous carcinoma (submitted to JAAD, under review): first author
  - Systematic Review on Functional Outcome Coverage for Postsurgical Assessment Tools for Perioral Surgery (submitted to Derm Surg): first author

### University of Colorado Dellavalle Research Group- Student Researcher

August 2023-January 2025

- Conducting systematic review on the relative accuracy of AI algorithms on detecting melanoma

- Conducting data analysis on patterns of usage of phototherapy for dermatology inflammatory and autoimmune disorders in VA hospitals

**Cleveland Clinic-** *Student Researcher. Mentor: Dr. Chirag Shah*

January 2023-April 2024

- Maintained and updated redcap database on patient outcomes for radiation treatment for oncology patients
- Conducted literature review, data collection, and data analysis for two projects:
  - Comparing Acute and Late toxicities with Daily vs. Every-Other-Day Five Fraction Partial Breast Radiation Therapy
  - Comparing Intraoperative Radiation Therapy vs. Partial Breast Irradiation for Local Control to in Patients Suitable for Omission of RT

**CANSUR Summer Scholar: Case Comprehensive Cancer Center and Case Western Reserve School of Medicine**

May 2023- August 2023 (12 hr/week)

- Selected as a Summer CANSUR scholar, funded by NCI
  - Conducted summer independent project on enhancing effect of TIGIT inhibitor on CAR-T cell therapy for solid tumors
- Assisted research at Wald lab, focusing on the identification and development of novel therapeutic strategies for cancer with a particular focus on Acute myeloid leukemia (AML)
  - Assisted project on therapeutics enhancing specificity of CAR T cells to minimize off-target toxicity