

Ryan Yesung Lee

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EDUCATION

Yale School of Medicine

M.D. Candidate

STEP 1: Pass | STEP 2: 252

New Haven, CT

Expected 2025

Cornell University

B.S. in Biological Science | Minor: Applied Economics

(Was on leave for 2 semesters in 2013) *May 2016*

GPA: 4.02 | Distinctions: Summa Cum Laude, Dean's List, Nominated for Golden Key Honor Society

Ithaca, NY

RESEARCH EXPERIENCE

Yale School of Medicine

New Haven, CT

Medical Student Researcher, Department of Anesthesiology, Ophthalmology and Therapeutic Radiology *June 2019 – Present*

- Selected as fellow for Foundation for Anesthesia Education and Research Medical Student Anesthesia Research Fellowship (MSARF) Summer Program to work on project looking at potential benefits on perioperative MME, hospital length of stay and pain scores of erector spinae blocks in patients undergoing spinal fusion surgery.
- Attended and presented poster titled The Efficacy of Paravertebral Block in Reducing Postoperative Pain in Patients Undergoing Robotic Mitral Valve Repair Surgery at moderated session as presenting first author at 2022 American Society of Regional Anesthesia and Pain Medicine annual pain medicine meeting
- Worked on a review paper on peripheral nervous system stimulation for pain management with Dr. Rajput that resulted in 2nd author manuscript publication.
- Led a project examining the differences in clinicopathological characteristics and overall survival of Stage III Non-Small Cell Lung Cancer patients who received integrated concurrent chemo-radiation therapy (CCRT) vs. non-integrated CCRT
- Performed a retrospective analysis of a large hospital-based database named National Cancer Database (NCDB) to analyze the differences between the study cohorts using STATA
- Worked on research projects on metastatic uveal melanoma with Dr. Matthieu in ophthalmology, assisting with drafting abstracts and manuscripts.

New York University Langone Medical Center

New York, NY

Research Associate, Department of Dermatology

June 2016 – June 2018

- Participated in identifying and accruing new primary and metastatic melanoma patients to the Interdisciplinary Melanoma Cooperative Group (IMCG) research program
- Extracted clinicopathological information from patients' EPIC chart, entered the data into a database and maintained the database to reflect most recent information by regular follow-up with patients.
- Collected and processed patients' blood and tissue samples
- Obtained, compiled and provided clinicopathological data from more than 3000 research subjects to assist researchers/clinicians and worked as a co-author on multiple projects that led to abstract and manuscript publications
- Worked on a project to examine if histological subtype of primary melanoma is an independent predictor of worse response to BRAF targeted therapy and worse melanoma-specific survival
- Worked on a project to determine if bone metastasis predicts poor treatment response rate and overall survival of patients with metastatic melanoma
- Worked on migrating more than 3000 study records with more than 200 data fields each from Oracle Clinical Database to REDCap database

Cornell University, Schaffer - Nishimura Lab

Ithaca, NY

Research Assistant, Department of Biomedical Engineering

January 2014 – May 2015

- Conducted research on the effect of high fat diet on brain vessel structures
- Worked 9 - 12 hours a week during academic semesters, and 40 hours a week in summer
- Performed surgical techniques, examined the mice under two photon excited fluorescence microscopy, and analyzed the data using vessel tracing program

Cornell University, Lee Lab

Ithaca, NY

Research Assistant, Department of Molecular Biology and Genetics

August 2012 – December 2012

- Conducted research on the effect of Host cell factor C1 (HCF1) expression on cell growth
- Worked 6 - 9 hours a week growing cell cultures, counting cells using light microscopes and performing gel electrophoresis

WORK EXPERIENCE

Dallas County Health and Human Services

Dallas, TX

Epidemiologist

August 2020 – March 2021

- Work in Dallas County's contact tracing program for the COVID-19 pandemic for over 100,000 COVID-19 cases in Dallas
- Work in Data Management department to polish and quality-assure the clinical and demographic data gathered through the contact tracing efforts
- Lead an online surveillance project to keep track of students and employees COVID-19 related absences in more than 800 public, private and charter schools in Dallas County
- Built a REDCap database to virtually capture the online surveillance data for COVID-19 school absences
- Gather and analyze clinical data for COVID-19 school outbreak cases using EXCEL to create epidemiologic curves and summary
- Get involved in cleaning and compiling data to migrate clinical and demographic data for more than 100,000 COVID-19 cases from REDCap database to Salesforce database

Law Office of Won Jong Lee, P.C.

Bayside, NY

Legal Assistant

March - July 2013

- Worked for 45 hours a week, assisting the attorney by organizing case files, client database and legal documents
- Translated legal immigration documents from Korean to English
- Assisted and communicated with both Korean and American clients on phone and in person

LEADERSHIP EXPERIENCE

Yale School of Medicine – Anesthesia Interest Group

New Haven, CT

Student Leader

September 2022 – Present

- Organized the annual Introduction to Anesthesia with the department of Anesthesiology at Yale New Haven Health
- Hosted the annual Anesthesia Research Meet and Greet with the professors active in research within the department
- Organized the annual anesthesia simulation workshop involving 4 stations: Airway Management, PIV / A-line, Gastric ultrasound, and Neuraxial Anesthesia
- Hosted the annual match panel with the program director and the assistant program director of anesthesiology along with graduating students who matched to anesthesia residency
- Organized career introduction lunch event with anesthesiologist attendings and residents to the preclinical students

ASA Medical Student Delegate

New Haven, CT

Yale Medical Student Delegate

August 2024 – Present

- Selected as the medical student delegate to represent Yale School of Medicine at the 2024 annual ASA meeting in October at Philadelphia

Yale School of Medicine – Medical Student Council

New Haven, CT

Traffic Safety Representative

September 2018 - May 2019

- Attended monthly meeting with representatives from the administration, city, Yale security and police departments to discuss important issues about traffic safety
- Organized projects to set up bollards for the intersection at the streets where several motor vehicle accidents occurred

SKILLS AND TECHNIQUES

- Skills: EPIC electronic medical chart, Microsoft Office (particularly skilled with Excel), REDCAP database, Oracle Clinical Database, LabVantage Database, Adobe Photoshop, Adobe Illustrator,
- Lab Techniques: Isolation of PBMC from CPT tubes, Isolation of Plasma and Buffy Coat from EDTA tubes, Microdissection of Tumor Tissues on H&E Slides, Mice Handling, Mice Anesthetization, Mice Subcutaneous Injection, Mice Intraperitoneal Injection, Whole Mice Perfusion Fixation, Mice Craniotomy Surgery, Mice Brain Tissue Sectioning, Mice Immunofluorescence Staining

ABSTRACTS

- **Yesung Lee**, Natasha Masub, Todd Wechter, Judy Zhong, Una Moran, Farbod Darvishian, David Polsky, Russell S. Berman, Richard L. Shapiro, Jeffrey S. Weber, Iman Osman, Anna C. Pavlick, and Melissa Wilson. Bone metastasis to predict treatment response rate and overall survival of patients with metastatic melanoma. *Journal of Clinical Oncology* 36, 2018 (suppl; abstr e21585)
- Todd Wechter, Natasha Masub, **Yesung Lee**, Una Moran, Jeffrey S. Weber, Anna C. Pavlick, Judy Zhong, Iman Osman, and Melissa Wilson. Association of increased somatic mutations in metastatic melanoma patients with clinical outcome. *Journal of Clinical Oncology* 36, 2018 (suppl; abstr e21568)
- Michael Lattanzi, **Yesung Lee**, Eric Michael Robinson, Sarah A. Weiss, Una Moran, Danny Simpson, Richard L. Shapiro, Russell S. Berman, Anna C. Pavlick, Melissa Wilson, Tomas Kirchhoff, Judy Zhong, and Iman Osman. Primary melanoma histologic subtype (HS) impacts melanoma specific survival (MSS) and response to systemic therapy. *Journal of Clinical Oncology* 35, 2017 (suppl; abstr 9577). Poster presentations delivered at the American Society of Clinical

Oncology annual meeting, Chicago, IL, June 2017 and at NYU School of Medicine Dermatology Research Day, New York, NY, April 2017.

- Esther Kazlow, Robert Ferguson, Danny Simpson, Carlos N. Martinez, Matjaz Vogelsang, Una Moran, **Yesung Lee**, Iman Osman, David Polsky, and Tomas Kirchhoff. Novel germline risk loci in familial melanoma (FM). *Journal of Clinical Oncology* 35, 2017 (suppl; abstr 1535).
- N.A. Saeed, **Yesung Lee**, and H.S.M. Park. Multi-Facility vs. Single-Facility Concurrent Chemoradiation for Lung Cancer. *International Journal of Radiation Oncology, Biology, Physics*. <https://doi.org/10.1016/j.ijrobp.2021.07.1030>
- **Ryan Yesung Lee**, Nishita Lockwood, Wei Shao Tung, Qingbing Zhu, Arnar Giersson, and Jinlei Li. The Efficacy of Paravertebral Block in Reducing Postoperative Pain in Patients Undergoing Robotic Mitral Valve Repair Surgery. 21st Annual Pain Medicine Meeting. 2022.

PEER-REVIEWED PUBLICATIONS

- Michael Lattanzi, **Yesung Lee**, Danny Simpson, Una Moran, Farbod Darvishian, Randie H Kim, Eva Hernando, David Polsky, Doug Hanniford, Richard Shapiro, Russel Berman, Anna C Pavlick, Melissa A Wilson, Tomas Kirchhoff, Jeffrey S Weber, Judy Zhong, and Iman Osman. Primary Melanoma Histologic Subtype: Impact on Survival and Response to Therapy. *Journal of National Cancer Institute*. 2018 Jun 15. doi: 10.1093/jnci/djy086.
- Melissa A Wilson, Judy Zhong, Paul Johannet, **Yesung Lee**, Natasha Masub, Todd Wechter, Una Moran, Russel S Berman, Richard L Shapiro, Jeffrey Weber, Anna Pavlick, Iman Osman. Preliminary analysis of distinct clinical and biologic features of bone metastases in melanoma. *Melanoma Res*. 2020 Oct;30(5):492-499. Doi:10.1097/CMR.0000000000000691.
- Michael P. Plebanek, Nicholas L. Angeloni, Elena Vinokour, Jia Li, Anna Henkin, Dalia Martinez-Marin, Stephanie Filleur, Reshma Bhowmick, Jack Henkin, Stephen D. Miller, Igal Ifergan, **Yesung Lee**, Iman Osman, C. Shad Thaxton, and Olga V. Volpert. Pre-metastatic cancer exosomes induce immune surveillance by patrolling monocytes at the metastatic niche. *Nature Communication*. 2017 Nov 6;8(1):1319. doi: 10.1038/s41467-017-01433-3.
- Chow RM, **Lee RY**, Rajput K. Peripheral Nerve Stimulation for Pain Management: A Review. *Curr Pain Headache Rep*. 2023 Sep;27(9):321-327. doi: 10.1007/s11916-023-01143-0. Epub 2023 Jul 31. PMID: 37523121.
- Miguez S, **Lee RY**, Chan AX, Demkowicz PC, Jones BSCL, Long CP, Abramson DH, Bosenberg M, Sznol M, Kluger H, Goldbaum MH, Francis JH, Pointdujour-Lim R, Bakhoum MF. Validation of the Prognostic Usefulness of the Gene Expression Profiling Test in Patients with Uveal Melanoma. *Ophthalmology*. 2023 Jun;130(6):598-607. doi: 10.1016/j.ophtha.2023.01.020. Epub 2023 Feb 4. PMID: 36739981; PMCID: PMC10619207.
- Demkowicz P, Pointdujour-Lim R, Miguez S, **Lee Y**, Jones BSCL, Barker CA, Bosenberg M, Abramson DH, Shoushtari AN, Kluger H, Francis JH, Sznol M, Bakhoum MF. Determinants of overall survival in patients with metastatic uveal melanoma. *Cancer*. 2023 Oct 15;129(20):3275-3286. doi: 10.1002/cncr.34927. Epub 2023 Jun 29. PMID: 37382208; PMCID: PMC11149607.