

Jacob Edward Gardner
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EDUCATION

Jun. 2023 – Jun. 2025 (expected)	Case Western Reserve University School of Medicine <ul style="list-style-type: none">• Candidate, Master of Public Health
Jul. 2020 – Jun. 2025 (expected)	Case Western Reserve University School of Medicine <ul style="list-style-type: none">• Candidate, Doctor of Medicine• USMLE Step 1: Pass• USMLE Step 2 CK: 261
Jan. 2014 – May 2014	Durham Technical Community College <ul style="list-style-type: none">• Emergency Medical Technician (EMT) - Initial Provider non-degree course• Qualified to take any state or national EMT-Basic certification exam
Aug. 2013 – May 2017	Duke University, Trinity College of Arts & Sciences <ul style="list-style-type: none">• Bachelor of Science• Interdepartmental Major in Neuroscience and Philosophy• Thesis title: “A Neuroscientific and Philosophical Investigation into Human Cognition and Consciousness”

HONORS AND AWARDS

Summer 2023	<i>College Financial Aid Program Core Grant</i> , Jewish Family Service Association of Cleveland
Summer 2023	<i>The Mrs. Bert Keller Fund</i> , Jewish Family Service Association of Cleveland
Summer 2023	<i>Grants for Emerging Researcher/Clinician Mentorship Program Award</i> , IDSA Foundation and HIV Medicine Association
Summer 2021 & 2023	<i>James and Ruth Levitan Cancer Research Endowment</i> , Case Comprehensive Cancer Center
Summer 2021	<i>Hearst Research Fellowship</i> , Case Western Reserve University School of Medicine
Spring 2017	<i>Graduation with Distinction</i> , Duke University, Trinity College of Arts & Sciences
Summer 2016	<i>Summer Vertical Integration Program Award</i> , Duke University, Trinity College of Arts & Sciences
Fall 2015 & 2016	<i>Dean’s List</i> , Duke University, Trinity College of Arts & Sciences

WORK EXPERIENCE

Oct. 2023 – Present	Centers for Disease Control and Prevention, National Center for Immunization and Respiratory Diseases, Division of Viral Diseases, Viral Vaccine-Preventable Disease Branch <i>Intern</i> <ul style="list-style-type: none">• Analyzing data collected as part of the HPV-IMPACT Monitoring Project• Conducting a systematic review of one-dose versus multi-dose HPV vaccine regimens for use by the Advisory Committee on Immunization Practices HPV Vaccine Work Group
Mar. 2018 – Aug. 2018	The Phnom Penh Post, Phnom Penh, Cambodia <i>Reporter, Supplements section</i> <ul style="list-style-type: none">• Wrote informational guides for daily life in Cambodia• Worked with individuals from various sectors of Cambodian industry
May 2017 – Feb. 2018	Heritage Lake Farms LLC., Garrettsville, OH

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Farmhand

- Assisted in production and distribution of hay and maple syrup
- Performed general maintenance and upkeep of the farm

Aug. 2013 – May 2014 Duke Immersive Virtual Environment (DiVE Lab), Durham, NC
Tour Guide/Technician

- Led tours of the DiVE Lab and demonstrated its academic and research purposes

Jun. – Aug. 2012, '13, '14 Camp Wise, Chardon, Ohio
Counselor

- Supervised children and helped them to grow as individuals by providing a fun and safe recreational and learning environment

RESEARCH EXPERIENCE

Feb. 2018 – Present Calmette Hospital, National Cancer Centre (NCC) of Cambodia
Cleveland Clinic Foundation, Lerner Research Institute, Jung Laboratory (since Apr. 2021)
PI: Rath Beauta MD, Tracy Sherertz MD, Andrew Berchuck MD, Jae Jung PhD
Project: “Cervical Cancer Care and Prevention in Cambodia”

- Investigating the prevalence of oncogenic HPV subtypes among Cambodia’s cervical cancer patient population
- Conducting a retrospective chart review of the NCC’s first 100 cervical cancer patients

Jan. 2015 – May 2017 Duke University, Center for Cognitive Neuroscience, Woldorff Laboratory
PI: Marty G. Woldorff PhD
Project: “Intraoperative EEG Correlates of Pre- & Postoperative Cognitive Function”

- Used electroencephalography (EEG) to investigate the effects of surgery and anesthetic drugs on cognition in older adults
- Used MATLAB software to analyze time-series EEG data
- Worked on a joint clinical study with Duke Health Anesthesiology for an honors thesis

May 2015 – May 2016 University Hospitals Cleveland Medical Center, Departments of Neurosurgery and Radiation Oncology
PI: Simon Lo MD, Andrew Sloan MD
Project: “Radiation-Induced Cognitive Deficits”

- Conducted a literature review of the dose-response relationship between radiation therapy and cognitive function
- Observed firsthand multiple neuro and radiosurgeries
- Attended the second meeting of the International Gamma Knife Research Foundation

RESEARCH SUPPORT

Jun. 2021 – Aug. 2021	Granting Agency: Title of Project: Principal Investigator: Total Direct Costs Awarded:	Case Comprehensive Cancer Center Human Papillomavirus Infection Among Cambodian Patients with Cervical Cancer Dr. Jae Jung \$3500
Oct. 2019 – Oct. 2022	Granting Agency: Title of Project: Principal Investigator: Total Direct Costs Awarded:	Varian Medical Systems, Inc. Cervical Cancer Care and Prevention in Cambodia Dr. Koy Vanny \$20,000
Dec. 2017 – Dec. 2018	Granting Agency: Title of Project: Principal Investigator: Total Direct Costs Awarded:	Duke University Cervical Cancer Care and Prevention in Cambodia Dr. Andrew Berchuck \$10,000

BIBLIOGRAPHY

Peer Reviewed Articles

1. **Gardner J.E.**, Eav S., Rath B., Bunpa P....Sherertz, T. “Advancing Cancer Care Infrastructure in Cambodia: Summary of the First 100 Patients with Cervical Cancer Treated at the National Cancer Centre.” Manuscript submitted for publication, 2024.
2. Browndyke J. N., Wright M.C., ...**Gardner J.E.**, ... Berger M. “Perioperative neurocognitive and functional neuroimaging trajectories in older APOE4 carriers compared with non-carriers: secondary analysis of a prospective cohort study.” *British Journal of Anaesthesia*. September 14, 2021. PMID: 34535274
3. Giattino, C. M., **Gardner J. E.**, Sbahi, F. M., Roberts, K. C., Cooter, M., Moretti, E., ... & Brigman, B. E. “Intraoperative Frontal Alpha-Band Power Correlates with Preoperative Neurocognitive Function in Older Adults.” *Frontiers in Systems Neuroscience*. May 8, 2017. PMID: 28533746

Oral Presentations

1. **Gardner J.E.** “Research Proposal: HPV Infection among Cambodian Patients with Head & Neck Squamous Cell Carcinoma” [Keynote Address], Cambodian Association of Oral and Maxillofacial Surgeons & Dental Implant Society of Cambodia 1st Joint Conference; Phnom Penh, Cambodia (2024).

Poster Presentations

1. **Gardner J.E.**, Eav S., Rath B., Bunpa P., Mel M., Ath V., Thou S., Berchuck A., Sherertz T. “Characteristics and Early Outcomes of the First 100 Patients with Cervical Cancer at the National Cancer Center of Cambodia,” American Radium Society 103rd Annual Meeting; Maui, HI (2021). (Poster presented by Gardner, J.E.)
2. **Gardner J.E.**, Eav S., Rath B., Thou S., Yi R., Pluot M., Aun K., Phok R., Berchuck A., Sun R., Jung K., Jung J., Sherertz T. “Human Papillomavirus Infection among Cambodian Patients with Cervical Cancer,” American Radium Society 103rd Annual Meeting; Maui, HI (2021). (Poster presented by Gardner, J.E.)
3. **Gardner J.E.**, Eav S., Pluot M., Bunpa P., Ngoun S., Winer R., Lin J., Hawes S., Berchuck A., Sherertz T. “HPV Subtyping of Cervical Cancer in Cambodia,” Varian Research Partnership Symposium; Chicago, IL (2019). (Poster Presented by Gardner J.E. & Bunpa P.)
4. **Gardner J.E.**, Eav S., Pluot M., Winer R., Lin J., Hawes S., Berchuck A., Sherertz T. “HPV Subtyping of Cervical Cancer in Cambodia,” ICEC Young Investigators’ Conference: Pioneering Action for Global Cancer Care; Washington D.C. (2019). (Poster presented by Sherertz T.)
5. **Gardner J.E.**, Giattino C.M., Roberts K.C., Sbahi F.M., Berger M., & Woldorff M.G. “Analyzing Intraoperative EEG for Predictors of POCD and Delirium” Duke Center for the Study of Aging and Human Development Research & Education Retreat; Durham, NC (2017). (Poster presented by Gardner, J.E.)
6. **Gardner J.E.**, Giattino C.M., Roberts K.C., Sbahi F.M., Berger M., & Woldorff M.G. “Intraoperative EEG Correlates of Pre- & Postoperative Cognitive Function” Cognitive Neuroscience Society Annual Meeting; San Francisco, CA (2017). (Poster presented by Gardner, J.E.)
7. **Gardner J.E.**, Giattino C.M., Roberts K.C., Sbahi F.M., Berger M., & Woldorff M.G. “Intraoperative EEG Correlates of Pre- & Postoperative Cognitive Function” Duke Center for the Study of Aging and Human Development Research & Education Retreat; Durham, NC (2016). (Poster presented by Gardner, J.E.)

COMMUNITY SERVICE

Aug. 2021 – Present	Student-Run Health Clinic (SRHC) at CWRU School of Medicine (SoM) <ul style="list-style-type: none">• Participate in COVID-19 vaccination clinics held at Cleveland’s Neighborhood Family Practice
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- Give fun, interactive presentations on sexual health to residents of the YWCA of Greater Cleveland's Independence Place
- Jan. 2017 – May 2017 Adopt-a-Grandparent, Durham, NC
- Weekly visits to residents at Durham Nursing & Rehabilitation Center
 - Held conversations with residents and facilitated group activities
- Aug. 2015 – May 2017 America Reads/America Counts, Durham, NC
- Math tutor for middle school students in the Durham Public School System
 - Prepared middle school student for state and federal standardized tests

LEADERSHIP

- March 17th, 2022 CWRU SoM/CCLCM Global Health Conference 2022: "Vaccine Equity in Light of the COVID-19 Pandemic"
- Organizer*
- Identified and booked speakers and facilitators to participate in this virtual conference
 - Designed learning objectives and selected attendee preparation materials for this virtual conference
- Dec. 2020 – Present Student-Run Health Clinic at CWRU School of Medicine
- Outreach Committee member & Representative to the Ohio Clinic Collaborative*
- Coordinate initiatives for student engagement in Cleveland through volunteer efforts with the Boys and Girls Club of Northeast Ohio
 - Work with community leaders to assess how the SRHC can best address immediate needs in the Cleveland community
 - Represent the SRHC at the Ohio Clinic Collaborative, a group of student-run free clinics in Ohio
- Oct. 2020 – Present Health Advocacy Organization at CWRU School of Medicine
- Executive Board member*
- Organized the first annual Ohio Medical Student Day of Advocacy where medical students from around the state met with state legislators to discuss healthcare policy
 - Co-creator of the Advocacy and Public Health curricular Pathway at CWRU SoM
 - Organize and participate in voter registration drives
 - Manage elective courses at the School of Medicine on healthcare advocacy and policy
- Aug. 2016 – May 2017 Jazz@ Duke
- Executive Board member*
- Organized free weekly Jazz concerts on Duke's campus
 - Coordinated with student and local musicians to perform at our concerts
- Jul. 2014 – Nov. 2015 ReadCONTRA.com
- Cofounder, Editor in Chief*
- Managed contributing writers and distributed stories for editing
 - Participated as a contributing writer including field reporting

CERTIFICATION AND LICENSURE

- Jul. 2015 – Mar. 2017 North Carolina Office of EMS
- May 2015 – May 2017 National Registry of Emergency Medical Technicians

MEMBERSHIPS

- Jan 2024 – Present American College of Surgeons
- May. 2023 – Apr. 2024 Infectious Disease Society of America

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Oct. 2016 – Oct. 2017 Cognitive Neuroscience Society

Languages: Spanish – Intermediate; Portuguese – Basic

Interests: Cooking, soccer, houseplants, board games, hiking, science fiction