

# Joseph Policarpio, MD

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## EDUCATION

<b>Doctor of Medicine</b> Carle Illinois College of Medicine, Champaign, IL	<i>May 2023</i>
<b>Post-baccalaureate Pre-medical Certificate</b> Mills College, Oakland, CA	<i>May 2018</i>
<b>Bachelor of Science in Biological Systems Engineering</b> University of California, Davis, CA	<i>June 2011</i>

## ELECTIVE COURSEWORK

University of Texas San Antonio:	Cardiothoracic Surgery	(01/30/2023 - 02/24/2023)
Emory University School of Medicine:	Cardiac Surgery	(01/03/2023 - 01/27/2023)
Yale School of Medicine:	Cardiac Surgery	(11/07/2022 - 12/02/2022)
Harvard Medical School:	Thoracic Surgery	(08/01/2022 - 08/26/2022)
Baylor College of Medicine:	Cardiothoracic Surgery	(05/23/2022 - 06/17/2022)
Carle Illinois College of Medicine:	Vascular Surgery	(04/11/2022 - 05/08/2022)
	Neurosurgery I	(03/14/2022 - 03/27/2022)
	Surgical Pathophysiology	(07/05/2021 - 08/01/2021)
	Adult Intensive Care	(06/07/2021 - 07/04/2021)

## EMPLOYMENT

**Carle Illinois College of Medicine, Champaign, IL** *April 2020 – May 2023*  
Peer Tutor

- All courses and clerkships completed
- By appointment

**Mills College, Oakland, CA** *August 2017 – May 2018*  
Teaching Assistant

- CHEM 107 & CHEM 108 – Organic Chemistry
- BIOG 110 – Biochemistry
- BIO 153 – Human Physiology
- BIO 034N – Human Physiology for Nurses

Peer Tutor at the Office of Learning, Advising, and Balance

- Individual tutoring by appointment in all courses above, plus Physics series

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## EMPLOYMENT (continued)

**Alcon Laboratories, Inc.**, Lake Forest, CA

June 2012 – August 2016

Territory Manager II

- Field service territory included San Francisco Bay Area to Reno, NV
- Repaired and maintained over 250 pieces of surgical equipment for:
  - Phacoemulsification, vitreoretinal surgery, photocoagulation, excimer laser eye surgery, surgical microscopy, refractive diagnostics

**Phoenix Research Laboratories**, Pleasanton, CA

May 2011 – June 2012

Manufacturing Engineer

- Installed and in-serviced on Micron II and Micron III retinal imaging microscope
  - Optical coherence tomography (OCT), photocoagulating laser, focal & full-field (Ganzfeld) electroretinography (ERG), slit lamp anterior segment imaging, trabecular meshwork gonioscopy
- Led shipping/receiving, animal husbandry, technical service, manufacturing processes

**Caffe Italia Restaurant**, Davis, CA

July 2007 – March 2011

- Employee Trainer, Senior Server, and Lead Employee for off-site catering
- 20-30 hours per week during undergraduate studies

**DeVino's Pizza & Pasta**, Pleasant Hill, CA

May 2003 – July 2007

- Nights and weekends during high school
- Promoted five times and left as supervisor

## PUBLICATIONS & POSTERS

Hojati, A., Policarpio, J., Yerrabelli, R. S., Wheeler, M. B., Rowitz, B. Patch Repair for Intestinal Perforation Closure in an Ex-Vivo Porcine Model with Burst Pressure Characterization. *J Reg Med Biol Res.* 2023;4(1):1-5. DOI: <https://doi.org/10.46889/JRMBR.2023.4106>

Hojati, A., Policarpio, J., Wheeler, M. B., Rowitz, B. Repair of Bowel Perforation: Endoscopic State of the Art. *J Reg Med Biol Res.* 2023;4(1):1-6. DOI: <https://doi.org/10.46889/JRMBR.2023.4104>

Policarpio, J. (2022, October 13). Generation X: Reaching the Minds of Residents and Fellows. *CTSNet*. <https://doi.org/10.25373/ctsnet.21325491.v1>

Policarpio, J. A., Derrick, M. J., & Mehta, S. S. (2022, October 1). Anomalous Right Coronary Artery from the Pulmonary Artery: An Institutional Report. *JTCVS Techniques*. DOI: <https://doi.org/10.1016/j.xjtc.2022.07.023>

Hojati, A., Policarpio, J., Yerrabelli, R.S., Wheeler, M.B., Rowitz, B. (2022, July 22). Patch Repair for Intestinal Perforation Closure in an Ex-Vivo Porcine Model with Burst Pressure Characterization. *Research Square*. DOI: <https://doi.org/10.21203/rs.3.rs-1842208/v1>

Policarpio, J., Pro, L., Gersh, B., & Saif, T. (2022, April 8). *docAssIst: The Doctor's Artificial Assistant* [Poster presentation]. 20th Annual Health Innovation Research Day, Carle Illinois College of Medicine, Champaign, IL.

Hojati, A., Policarpio, J., Wheeler, M., & Rowitz, B. (2022, April 8). *Burst Pressure Characterization of Bowel Perforation Repair in Ex-Vivo Animal Model* [Poster presentation]. 20th Annual Health Innovation Research Day, Carle Illinois College of Medicine, Champaign, IL.

MacInnis, B., Policarpio, J., & Wallon, R. (2022, March 25). *Rethinking Anki: An Innovative Gamification Addition* [Virtual presentation]. Carle Illinois College of Medicine Curriculum Retreat, virtual.

Valasapalli, S., Sathe, S., Policarpio, J. A., & Mantha, S. (2021). A Rare Case of Quadruple Negative GIST with an Unusual Presentation in a Young Female, Report of a Case. *Journal of Oncology Research Review & Reports. SRC/JONRR-163. J Oncol Res Rev Rep.*

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## PUBLICATIONS & POSTERS (continued)

MacInnis, B., Policarpio, J., & Wallon, R. (2021, October 28-29). *Rethinking Anki: An Innovative Gamification Add-on* [Virtual poster]. Virtual 5<sup>th</sup> Annual Medical Education Learning Specialists (MELS) Meeting.

Policarpio, J., MacInnis, B., & Wallon, R. (2021, June 12-17). *Augmenting Anki: Gamification of Software to Promote Retrieval Practice with Spaced Repetition* [Virtual poster]. Virtual 25<sup>th</sup> Annual International Association of Medical Science Educators (IAMSE) Conference.

Poster Presentation Abstracts, 25th Annual Meeting of the International Association of Medical Science Educators, June 12-17, 2021. *Med Sci Educ.* 2021 Nov 29;31(Suppl 1):29-110. doi: 10.1007/s40670-021-01454-0. Epub ahead of print. PMID: 34868729; PMCID: PMC8629599.

Policarpio, J., MacInnis, B., & Wallon, R. (2021, April 16). *Augmenting Anki: Gamification of Software to Promote Retrieval Practice with Spaced Repetition* [Virtual presentation]. 19th Annual Health Innovation Research Day, Carle Illinois College of Medicine, virtual.

Hojati, A., Policarpio, J., Wheeler, M., & Rowitz, B. (2021, April 16). *Ex-vivo animal testing of small burst pressure and state of the art repair of bowel perforation* [Virtual presentation]. 19th Annual Health Innovation Research Day, Carle Illinois College of Medicine, virtual.

Panigrahy, N., Policarpio, J., & Ramanathan, R. (2020). Multisystem inflammatory syndrome in children and SARS-CoV-2: A scoping review. *Journal of pediatric rehabilitation medicine*, 13(3), 301-316.

Policarpio, J., Van Orman, C., Few, N., & Zhu, R. (2020, March 6). *Scaling, Standardization, and Normalization of Inter-Reviewer Scoring of Medical School Applications* [Poster presentation]. 18th Annual College of Medicine Research Day Symposium, University of Illinois at Urbana-Champaign, IL.

Policarpio, J. A., Mehta, S. S., & Derrick, M. J. (2020, March 6). *Anomalous Right Coronary Artery from the Pulmonary Artery: An Institutional Report* [Oral presentation]. 18th Annual College of Medicine Research Day Symposium, University of Illinois at Urbana-Champaign, IL.

## PROJECTS

### **Heart Disease Prediction using Machine Learning**

- Live prototype available at [www.heartdiseasepredictor.com](http://www.heartdiseasepredictor.com), coded in Python
- Data from the CDC's 2020 Behavioral Risk Factor Surveillance System (BRFSS) Telephone Survey
- Description website coded in HTML, CSS, and Markdown: <https://heartdiseaseprediction.com/>

### **Stroke Prediction using Machine Learning**

- Live prototype available at [www.strokepredictor.com](http://www.strokepredictor.com), coded in Python
- Data from the CDC's 2020 Behavioral Risk Factor Surveillance System (BRFSS) Telephone Survey

### **Anki with Friends** software [add-on to the Anki flashcard software](https://ankiwithfriends.com/)

- Coded client and server software in Python
- Maintenance of remote server with 24-hour uptime
- Coded website in HTML, CSS, and Markdown: <https://ankiwithfriends.com/>
- Led a non-clinical IRB-exempt research study

### **COVID en Español** - <http://www.covidenespanol.com/>

- Website in Spanish that provides information about the COVID-19 pandemic
- Written in verbiage that reaches those with a low health literacy

### **Innovation Pathway** grant recipient, Carle Illinois College of Medicine

- \$2800 grant with one other student
- Literature review manuscript and ex-vivo lab study manuscript submitted on repair of bowel perforation

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## PROJECTS (continued)

### **docAssIsst: The Doctor's Artificial Assistant**

- Digital scribe using artificial intelligence
- Coded in Python using Google's *medical conversation model* Speech-to-Text API
- Software prototype produces a hypothesized speaker-diarized transcript and abstractive summarization using a bidirectional autoregressive transformer

### **Medical Student Roles in Bridging Gaps in Primary Care**

- Leading a team of 8 students in a clinical IRB-exempt survey-based research study, now recruiting

### **GitHub open-source software contributor**

- 21 repositories with over 300 contributions in the last year: <https://github.com/jopeo?tab=repositories>

### **Wikipedia editor**

- List of contributions available at <https://en.wikipedia.org/wiki/Special:Contributions/Joepolicarpio>

## CREDENTIALS & AWARDS

United States Center for SafeSport Training	<i>Feb 2022</i>
1 <sup>st</sup> Place in Innovation in Industry, 20 <sup>th</sup> Annual Health Innovation Research Day	<i>April 2022</i>
Academic Excellence Award, Carle Illinois College of Medicine	<i>Aug 2021</i>
19 <sup>th</sup> Annual Health Innovation Research Day Program Committee member	<i>AY2020-2021</i>
Collaborative Institutional Training Initiative (CITI Program) Core IRB Training	<i>Dec 2020</i>
Pecha Kucha Electives Category Winner	<i>July 2020</i>
Carle Illinois College of Medicine Admissions Committee member	<i>AY2019-2020</i>
<b>United States Patent and Trademark Office (USPTO) Registered Patent Agent</b>	<i>Sep 2018</i>
Federal Aviation Administration (FAA) Unmanned Aircraft Systems (UAS) Pilot	<i>Jan 2018</i>
<b>The President's Volunteer Service Award</b>	<i>Jan 2018</i>

## SKILLS & INTERESTS

**Equipment:** DaVinci surgical robot, StrykeCam, 1588, 1688, Ethicon TX, GIA, EEA, and curved cutter staplers, Zimmer Pulsavac, Covidien skin stapler, Dermabond Prineo, Prevena incision management, V.A.C. wound vac

**Software:** Epic EHR system (over 400 smart phrases), Stryker iSuite, Microsoft Office (Word, Excel, PowerPoint), Google Cloud APIs, Audacity audio recording and editing software, OBS video recording and broadcasting software

**Programming Languages** (in order of proficiency): Python, R, JSON, Git (version control software), Linux Bash (Unix shell), SSL for remote server management, VBA for MS Excel Macros, HTML, CSS, XML, JavaScript

1041-day streak on Duolingo, a free phone app for learning languages

Spanish, Mandarin, Italian, German

Pick-up Ice Hockey player

> 15 years experience