

J. BEN MARGINES

EDUCATION & MEDICAL TRAINING

Stein Eye Institute at UCLA, Los Angeles, CA
Residency in Ophthalmology, July 2021 to July 2024

Harbor-UCLA Medical Center, Carson, CA
Preliminary Year in Internal Medicine, June 2020 to July 2021

David Geffen School of Medicine at UCLA, Los Angeles, CA
Medical Doctorate May 2020

Carnegie Mellon University, Pittsburgh, PA
Master of Human-Computer Interaction, August 2013

Yale University, New Haven, CT
Bachelor of Arts in Cognitive Science, May 2010

LICENSURE

Licensed in State of California & Active DEA License

RESEARCH POSITIONS

Director **October 2022 - Present**
County Vitrectomy Collaborative Research Consortium **Los Angeles, CA**
Created and coordinated a group of fellows, residents, and medical students in the development of a database of vitrectomies performed within a safety-net hospital system in Los Angeles County.

- Multiple abstracts are currently in submission or have been accepted at national conferences.
- Group is fostering the educational goals of five medical students who aim to apply into Ophthalmology

Student Researcher **June 2017 - June 2020**
UCLA Preschool Vision Project **Los Angeles, CA**
Designed and conducted research on preschool vision screening and prevention of childhood amblyopia and blindness; mentored by Anne L. Coleman, M.D., Ph. D.

- Findings will impact criteria for which children should undergo cycloplegic exam
- Manually and algorithmically cleaned a database with more than 90,000 entries, enabling current and simplifying future research
- Research has yielded two presentations and two publications, with others in process

Clinical Research Coordinator **August 2015 - July 2016**
Cornea Genetic Eye Institute **Los Angeles, CA**
Designed and conducted research related to the diagnosis and treatment of keratoconus and keratoconjunctivitis sicca with Ron Gaster, M.D. and Yaron Rabinowitz, M.D.

- Published research on the efficacy of a new method for corneal de-epithelialization which is equally effective to the current method for corneal collagen crosslinking
- Contributed to a published research review on the current status of knowledge on the genetics of keratoconus
- Conducted a study on the efficacy of a novel therapy for keratoconjunctivitis sicca

Research Assistant **February 2013 - September 2013**
Ubicomp Lab **Pittsburgh, PA**
Master's student researcher under Anind Dey and Jin-Hyuk Hong. Conducted research on applications of machine learning algorithms on driver aggression and driver training

- Published research on a novel algorithm to detect driver aggression
- Research presented at the 2014 Conference on Computer-Human Interaction

Project Manager **January 2013 - August 2013**
Radiology Information System Redesign for GE Healthcare **Pittsburgh, PA**
Developed a radiology product for GE Healthcare to increase workflow intuitiveness and information presentation

- Delivered a functional software prototype based on findings from user research
- Led an interdisciplinary research and design team to develop a software solution
- Orchestrated contextual inquiries with radiologists and other stakeholders

LEADERSHIP & VOLUNTEER EXPERIENCE

Medical Student Volunteer **September 2016 - June 2020**
UCLA Mobile Clinic Project & UCLA Mobile Eye Clinic **Los Angeles, CA**

Volunteered bi-monthly providing medical care and guidance for the large homeless population in Los Angeles.

- Conducted medical and social interviews, made accurate diagnoses, and coordinated with local organizations in cases where more complex workups were necessary.
- Coordinated volunteer efforts between both organizations to ensure proper staffing.

Co-President **August 2016 - August 2017**
Ophthalmology Interest Group **Los Angeles, CA**

Organized educational and training events for a large group of medical students

- Events included faculty-led discussions on international work, residency application, and career outlook
- Coordinated volunteer efforts with the UCLA Preschool Vision Project.

Ophthalmology Volunteer **May 2014**
Mission Natuvu Creek **Buca Bay, Fiji**

Triaged and performed eye examinations on hundreds of Fijian patients; strategized with ophthalmologists to improve local eyesight given limited resources

- Performed initial interviews and examined patients for intraocular pressure, keratometry, and with the ophthalmoscope
- Investigated and repaired donated machinery, an IOL Master and a YAG laser, the latter of which was utilized for three additional surgeries
- Witnessed the acute effects of elusive medical treatment and the degree to which rural medicine can improve lives

Ophthalmology Volunteer **Jan. 2014 - May 2014**
La Amistad Mobile Vision Clinic **Santa Ana, CA**

Shadowed and volunteered with a local ophthalmologist; aided with patient intake, examination, and English-Spanish translation

Emergency Medical Technician **May 2007 - May 2015**

Provided basic and advanced life support for medical and trauma patients in Broomall, PA (Volunteer at Marple Township Ambulance Corps, Aug. 2014 - May 2015), Stratford, CT (Volunteer at Stratford EMS Association, Jan. 2008 - Jun. 2008), and Lake Forest, CA (Paid position at Pacific Ambulance May 2007 - Aug. 2007)

EMPLOYMENT

Community Product Manager **Jan. 2012 - Aug. 2012**
BoostCTR **San Francisco, CA**

Designed an engaging and intuitive user interface for a community of Creative Ad Developers. Community drove client search marketing performance by 30%

Senior Research Analyst **Jul. 2010 - Jan. 2012**
The Nielsen Company **Chicago, IL**

Developed quantitative and qualitative analytics and recommendations for CPG companies to guide new product launches

ACCOLADES

UCLA Resident Informaticist Program **Los Angeles, CA 2023**
Funded Informatics Research Position

American Academy of Ophthalmology - Mid Year Forum **Washington, DC 2023**
Advocacy Ambassador Travel Grant

Knights Templar Eye Foundation Travel Grant **Los Angeles, CA 2017**
Subsidization of Travel Costs to Present Novel Research Results

Short Term Training Program Research Grant **Los Angeles, CA 2017**
Funding to Complete Ophthalmology Research with Anne L Coleman, M.D. Ph.D.

Scholarship Award Recipient, UCLA **Los Angeles, CA 2016**
Recognition of Academic Performance, MCAT Score, and Potential

BIBLIOGRAPHY

Publications

- Margines, JB**, Huang, C, Young, A, Yu, F, Coleman, AL. Epidemiological characteristics and risk factors associated with astigmatism in a population of 3- to 5-year-old children in Los Angeles, CA. *Ophthalmic Epidemiology*. Currently undergoing revisions.
- Margines, JB**, Singh P, Pirakitikulr N, Chia J, Roelofs K, Rootman D. Orbital Panniculitis-like T-Cell Lymphoma. *Indian Journal of Ophthalmology*. Accepted and in production.
- Margines JB**, Rabinowitz YS, Li X, Gaster RN. Results of corneal collagen cross-linking in patients with corneal ectasia after laser refractive surgery-A prospective study [published online ahead of print, 2023 Mar 16]. *Photodiagnosis Photodyn Ther*. 2023;42:103521. doi:10.1016/j.pdpdt.2023.103521
- Margines JB**, Hobbs SD. Pentosan Polysulfate Maculopathy. [Updated 2022 Dec 26]. In: StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2023 Jan-. Available from: <https://www.ncbi.nlm.nih.gov/books/NBK589706/>
- JB Margines**, Fei Yu, Shiva Mehravaran & Anne Louise Coleman (2022) Non-Cycloplegic and Cycloplegic Autorefractometry with Retinomax: An Agreement Study in Preschoolers in Los Angeles, California, *Ophthalmic Epidemiology*, DOI: 10.1080/09286586.2022.2127786
- Roelofs KA, **Margines JB**, Chen T, Goodyear K, Goldberg RA, Rootman DB. Optimizing Management of Asymmetric Ptosis: A Comparison of Three Posterior Approach Resection Algorithms. *Ophthalmic Plast Reconstr Surg*. 2023;39(1):72-75. doi:10.1097/IOP.0000000000002246
- Margines, J.B.**, Neseemann, J., Sebag, J. (2021). Surgical Anatomy of Vitreous. In: Jain, A., Natarajan, S., Saxena, S. (eds) *Cutting-edge Vitreoretinal Surgery*. Springer, Singapore. https://doi.org/10.1007/978-981-33-4168-5_2
- Gaster RN, **Ben Margines J**, Li X, Canedo AC, Rabinowitz YS. Results of Corneal Collagen Cross-Linking in Adolescents with Progressive Keratoconus – A Prospective Study. *Journal of Cataract and Refractive Surgery*. 2021; Publish Ahead of Print. doi:10.1097/j.jcrs.0000000000000617
- Margines JB**, Huang C, Young A, et al. Refractive Errors and Amblyopia Among Children Screened by the UCLA Preschool Vision Program in Los Angeles County. *American Journal of Ophthalmology*. 2020;210:78-85. doi:10.1016/j.ajo.2019.10.013.
- Zhang, W & **Margines, J. Ben**, Jacobs, D.S., Rabinowitz, Y.S., Hanser, E.M., Chauhan, T., Chung, D., Bykhovskaya, Y., Gaster, R.N., Aldave, A. Corneal perforation following corneal cross-linking in keratoconus associated with potentially pathogenic ZNF469 mutations. *Cornea*. 2019;38:1033-9.
- Bykhovskaya Y, **Margines J. Ben**, Rabinowitz Y. *Genetics in Keratoconus: where are we?* *Eye and Vision*. 2016;3(1). doi:10.1186/s40662-016-0047-5.
- Gaster R, **Margines J. Ben**, Gaster D, Li X, Rabinowitz Y. *Comparison of the Effect of Epithelial Removal by Transepithelial Phototherapeutic Keratectomy or Manual Debridement on Cross-linking Procedures for Progressive Keratoconus*. *Journal of Refractive Surgery*. 2016;32(10):699-704. doi:10.3928/1081597x-20160712-01.
- Hong, J.H., **Margines, J. Ben**, and Dey, A.K. 2014. *A Smartphone-based Sensing Platform to Model Aggressive Driving Behaviors*. In *Proceedings of the 2014 CHI Conference on Human Factors in Computing Systems*. ACM Press, New York, NY. DOI:<http://dx.doi.org/10.1145/2556288.2557321>
- Margines, J. Ben**, Gupta, R., Chisik, Y. 2013. *Ball of Secrets*. In *Proceedings of the 2013 ACE International Conference on Advances in Computer Entertainment Technology*, Boekelo, Netherlands. ACM Press, New York, NY.

LECTURES &

PRESENTATIONS

Margines, J. Ben. (2023, July). Pars Plana Vitrectomy for Intraocular Foreign Body Removal at a Safety-Net Hospital in Los Angeles, CA. American Society of Retina Specialists, Seattle, WA.

Jules Stein Eye Institute Grand Rounds, Invited Presenter: January 2023, September 2022, May 2022, March 2022, December 2021

Stickler Syndrome, Pacific Retina Conference, April 2022, Los Angeles CA

Margines, J. Ben. (2019, May). Epidemiological characteristics of astigmatism among a population of pre-school children in Los Angeles, California. Association for Research in Vision and Ophthalmology, Vancouver, BC, Canada.

Margines, J. Ben. (2018, May). Agreement between non-cycloplegic refraction with Retinomax and cycloplegic refraction in pre-school children informs screening criteria. Association for Research in Vision and Ophthalmology, Honolulu, HI.

SKILLS &

INTERESTS

- **Data Analysis:** *Proficient in Microsoft Excel and R Studio*
- **Design:** *Proficient in Adobe Photoshop, Adobe InDesign*
- **Spanish Speaking:** *Con conversationally fluent, able to conduct medical interviews*
- **Overnight Through-Hiking:** *Most recently on the Na-Pali Coast Trail in Kauai, a 22-mile, 3-day trek*
- **Large-Format Photography:** *Awarded funding to merge large-format with 35-mm content*
- **Gardening:** *Currently most proud of my Calathea and Norfolk Pine*