
BIOGRAPHICAL SKETCH

NAME: Goblirsch, Timothy J

eRA COMMONS USER NAME (credential, e.g., agency login):

POSITION TITLE: Heed Fellowship

EDUCATION/TRAINING:

INSTITUTION AND LOCATION	DEGREE (if applicable)	Start Date MM/YYYY	Completion Date MM/YYYY	FIELD OF STUDY
Washington University in St Louis, St Louis, MO	B.A.	07/2015	05/2019	Cognitive Neuroscience, Biomedical Physics
Georgetown University School of Medicine, Washington, DC	M.D.	07/2019	05/2023	Doctor of Medicine
University of Pennsylvania Health System, Philadelphia, PA	Residency	06/2023	06/2027	Ophthalmology

A. Personal Statement

I am an ophthalmology resident at the Scheie Eye Institute at the University of Pennsylvania with a focused interest in vitreoretinal disease, particularly retinal vascular and pediatric retinal disorders. My research integrates clinical epidemiology and translational applications, emphasizing health disparities in retinal disease. I continue to contribute to clinical case literature regarding complex adult and pediatric retinal and ocular pathology, including a forthcoming book chapter detailing surgical management of vitreous hemorrhage after open globe injury in pediatric patients. I have developed a strong foundation in clinical research, database analysis, and scientific communication. My long-term goal is to become a physician-researcher advancing equitable care and outcomes in retinal disease.

B. Positions, Scientific Appointments and Honors

Positions and Scientific Appointments

2025-2026: House Staff Council Member-at-Large, University of Pennsylvania Health System

2025-2026: Member, Graduate Medical Education Committees:

- Program Special Review Committee Member
- Committee on Safety and Quality Member
- Non-Standard Training Program, Non-Accredited Fellowship, and Visa Application Review Subcommittee Member

2025-present: Project Team Lead: Patient Safety Quality Improvement Curriculum, Scheie Eye Institute

2024-present: Resident Physician, Department of Ophthalmology, Scheie Eye Institute at the University of Pennsylvania

2023-present: Assistant Clinical Instructor, Department of Ophthalmology, Perelman School of Medicine, University of Pennsylvania

2023-2024: Assistant Clinical Instructor, Department of Internal Medicine, Perelman School of Medicine, University of Pennsylvania

Honors and Awards:

2025: Advocacy Ambassador, AAO Mid-Year Forum 2025

2025: ARVO Travel Grant Recipient

2025: AAO Mid-Year Forum Advocacy Ambassador Travel Grant Recipient

2025: Pennsylvania Academy of Ophthalmology Advocacy Day Travel Grant Recipient

2023: Gold Humanism Honor Society: Inductee and Selection Committee Member

2023: Leonard Tow Humanism in Medicine Award

2023: Jesuit Leadership and Service Award

2019-2023: Surdna Grant Recipient
2017-2019: 3x University Athletic Association Conference Champion: NCAA Division III Pole Vault
2019: President's Council Scholar Athlete Award
2011: Eagle Scout Award

C. Contributions to Science

1. **Disparities in Diabetic Retinal Disease:** I have contributed to understanding disparities in diabetic retinal disease through large-scale epidemiologic analysis to better understand differences in disease prevalence and progression across racial, ethnic, and age groups. Our work helps to inform future risk stratification and inform potential targeted interventions to address identified disparities.
 - a. **Goblirsch TJ**, Yu Y, Cardillo S, Hubbard RA, VanderBeek BL. Racial and Ethnic Differences in Prevalence and Incidence of Diabetic Retinal Disease. *Retina*. Published online March 31, 2026. doi:10.1097/IAE.0000000000004836.
 - b. **Goblirsch, T.J.**, Yu, Y., Cordillo, S., Hubbard, R, VanderBeek, B. Age-Related Differences in Risk of Progression of Diabetic Retinal Disease. *In preparation for submission to Retina, 2026*.
2. **Clinical Characterization of Rare and Complex Retinal and Ocular Conditions:** I have contributed to case-based literature describing and managing rare retinal and ocular manifestations of systemic diseases, including immune therapy related ocular complications, and infectious and inflammatory ocular disorders.
 - a. **Goblirsch TJ**, Huang V, Maguire A, Chebolu AP. BILATERAL CHOROIDAL DETACHMENTS FOLLOWING NOVEL CHIMERIC ANTIGEN RECEPTOR T-CELL IMMUNOTHERAPY REGIMEN. *Retin Cases Brief Rep*. 2025;19(3):342-345. doi:10.1097/ICB.0000000000001558.
 - b. **Goblirsch TJ**, Paulson AE, Tashko G, Mekonnen AJ. Graves' disease following administration of second dose of SARS-CoV-2 vaccine. *BMJ Case Rep*. 2021;14(12):e246432. Published 2021 Dec 30. doi:10.1136/bcr-2021-246432.
 - c. **Goblirsch, T.J.**, Parikh, S.V., Staelin, L., Meng, M., Colbourn, R., Banihashemi, A., Tamhankar, M. HIV Antiretroviral Associated Myopathy: A Case of HAART Myopathy-induced strabismus. *Submitted to Case Reports in Ophthalmology, 2026*.
 - d. **Goblirsch, T.J.**, Caplash, S., Scoles, D. Terson-Like Syndrome following CT Myelography with Intrathecal Contrast. *Submitted to Retinal Cases and Brief Reports, 2026*.
3. **Pediatric and Traumatic Retinal Disease:** My work includes contributions to pediatric retinal pathology and trauma-related retinal disease, including authorship of a book chapter and multiple submitted manuscripts.
 - a. **Goblirsch, T.J.**, Scoles, D. Pediatric Retina: Chapter 13.2: Vitreous Hemorrhage after Open Globe Injury.
 - b. **Goblirsch, T.J.**, Scoles, D. Choroidal Neovascular Membrane Masquerading as Subretinal Fibrosis after Choroidal Rupture. *Submitted to Ophthalmology Retina, 2026*.
 - c. Caplash, S., **Goblirsch, T.J.**, Chang, A., Wahba, J., Scoles, D. A Case Series of Pediatric Toxoplasma Neuroretinitis. *Submitted to American Journal of Ophthalmology Case Reports, 2026*.
 - d. **Goblirsch, T.J.**, Jiao, G.Z., Scoles, D., Belin, P.J. Scleral Buckle for Non-Rhegmatogenous Retinal Detachment in ROP. *Submitted to Retina, 2026*.
4. **Surgical Education, Training Optimization, and Artificial Intelligence in Ophthalmology:** My research has explored longitudinal ophthalmic surgical education, including resident learning preferences in cataract surgery. I have also contributed to early development of deep learning models for cataract classification as part of a National Eye Institute collaboration, supporting automated diagnosis and grading systems.
 - a. Keenan TDL, Chen Q, Agrón E, et al. DeepLensNet: Deep Learning Automated Diagnosis and Quantitative Classification of Cataract Type and Severity. *Ophthalmology*. 2022;129(5):571-584. doi:10.1016/j.ophtha.2021.12.017. ***(Contributing member of AREDS Deep Learning Research Group)**
 - b. *Oral Presentation:* **Goblirsch, T.J.**, Conkling, P.R., Medina-Agramonte, G.M., Choi, R.Y. Cataract Surgery Learning Preferences Among Ophthalmology Residents and Fellows in 2022. 2023 American Society of Cataract and Refractive Surgery and American Society of Ophthalmic Administrators Annual Meeting. May 2023, San Diego, CA. (Oral Presentation Honorable Mention)

D. Scholastic Performance

YEAR	COURSE TITLE	GRADE
2015-2019	<p>WASHINGTON UNIVERSITY IN ST LOUIS</p> <p><i>Selected coursework:</i> Chemistry I and II, Organic Chemistry I and II, Biology I and II, Physics I and II, Calculus III, Biochemistry, Introduction to Psychology, Cognitive Neuroscience, Principles of Academic Mentoring, Functional Neuroimaging Methods, Principles of the Nervous System, Physiological Control Systems, Physics of Vision, Physics of the Heart, Optics and Wave Physics Laboratory, Modern Genetics, Principles of Human Physiology, Biomedical Ethics, Human Learning and Memory</p>	Overall GPA: 3.78
2019-2023	<p>GEORGETOWN UNIVERSITY SCHOOL OF MEDICINE</p> <p><i>Preclinical coursework:</i> histology, immunology, biochemistry, medical embryology, medical gross anatomy, medical neuroscience, microbiology, pathology, pathophysiology, patients, populations, and policy, physiology, diagnostic reasoning and testing, nutrition and patient health, intensive bioethics, business of medicine.</p> <p><i>3rd Year Clinical rotations:</i> Internal Medicine, Family Medicine, Psychiatry, Surgery, Pediatrics, Obstetrics and Gynecology, Neurology, Anesthesia, Interventional Radiology, Radiology,</p> <p><i>4th Year Clinical Rotations:</i> Georgetown Ophthalmology sub-internship, Washington University in St Louis Ophthalmology Away Rotation, Loyola Chicago Ophthalmology Away Rotation, Sinai Hospital of Baltimore Ophthalmology Away Rotation, Emergency Medicine sub-internship, Internal Medicine sub-internship, Physical Medicine and Rehabilitation sub-internship</p>	<p>Passed all preclinical courses (pass/fail only)</p> <p>Passed all 3rd year rotations (pass/fail only)</p> <p>Honors in Ophthalmology, EM, and IM sub-internships</p> <p>High Pass in PM&R sub-internship</p>