

# Stanford

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## Isaac Alden Bernstein

MD Student with Scholarly Concentration in Clinical Research / Surgery, expected graduation Spring 2026

### Publications

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#### PUBLICATIONS

- **Automated Recognition of Visual Acuity Measurements in Ophthalmology Clinical Notes Using Deep Learning.** *Ophthalmology science*  
Bernstein, I. A., Koornwinder, A., Hwang, H. H., Wang, S. Y.  
2024; 4 (2): 100371
- **Social Determinants of Health and Perceived Barriers to Care in Diabetic Retinopathy Screening.** *JAMA ophthalmology*  
Ravindranath, R., Bernstein, I. A., Fernandez, K. S., Ludwig, C. A., Wang, S. Y.  
2023
- **The Association Between Frailty and Visual Field Loss in U.S. Adults.** *American journal of ophthalmology*  
Bernstein, I. A., Fisher, A. C., Singh, K., Wang, S. Y.  
2023
- **Comparison of Ophthalmologist and Large Language Model Chatbot Responses to Online Patient Eye Care Questions.** *JAMA network open*  
Bernstein, I. A., Zhang, Y. V., Govil, D., Majid, I., Chang, R. T., Sun, Y., Shue, A., Chou, J. C., Schehlein, E., Christopher, K. L., Groth, S. L., Ludwig, C., Wang, et al  
2023; 6 (8): e2330320
- **Automated Radiomic Analysis of Vestibular Schwannomas and Inner Ears Using Contrast-Enhanced T1-Weighted and T2-Weighted Magnetic Resonance Imaging Sequences and Artificial Intelligence.** *Otology & neurotology : official publication of the American Otological Society, American Neurotology Society [and] European Academy of Otology and Neurotology*  
Neves, C. A., Liu, G. S., El Chemaly, T., Bernstein, I. A., Fu, F., Blevins, N. H.  
2023
- **Association between insurance status and hearing healthcare use in the United States.** *American journal of otolaryngology*  
Bernstein, I. A., Megwali, U. C.  
2023; 44 (6): 103993
- **Seeing What Patients See: Identifying Visual Acuity from Ophthalmology Clinical Notes Using Deep Learning and Natural Language Processing**  
Bernstein, I., Koornwinder, A., Hwang, H., Wang, S.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Otolaryngic sensory loss as a measure of frailty among older US adults.** *International forum of allergy & rhinology*  
Hura, N., Bernstein, I. A., Mady, L. J., Agrawal, Y., Lane, A. P., Rowan, N. R.  
2021
- **Predictors of academic career placement and scholarly impact in fellowship-trained rhinologists** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*  
Vohra, V., Watley, D. C., Yan, C. H., Locke, T. B., Bernstein, I. A., Levy, J. M., Rowan, N. R.  
2021: 62-70
- **Association Between Chemosensory Dysfunction and Diet Quality in United States Adults** *AMERICAN JOURNAL OF RHINOLOGY & ALLERGY*  
Roxbury, C. R., Bernstein, I. A., Lin, S. Y., Rowan, N. R.  
2022; 36 (1): 47-56
- **The association of frailty with olfactory and gustatory dysfunction in older adults: a nationally representative sample** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*

Bernstein, I. A., Roxbury, C. R., Lin, S. Y., Rowan, N. R.

2021; 11 (5): 866-876

● **Implications of Obesity on Endoscopic Sinus Surgery Postoperative Complications: An Analysis of the NSQIP Database** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*

Wardlow, R. D., Bernstein, I. A., Orlov, C. P., Rowan, N. R.

2021; 164 (3): 675-682

● **Interleukin 13 (IL-13) alters hypoxia-associated genes and upregulates CD73** *INTERNATIONAL FORUM OF ALLERGY & RHINOLOGY*

Khalil, S., Bernstein, I., Kulaga, H., Gour, N., Rowan, N., Lajoie, S., Lane, A. P.

2020; 10 (9): 1096-1102

● **Multiple aspects of male germ cell development and interactions with Sertoli cells require inositol hexakisphosphate kinase-1** *SCIENTIFIC REPORTS*

Fu, C., Rojas, T., Chin, A. C., Cheng, W., Bernstein, I. A., Albacarys, L. K., Wright, W. W., Snyder, S. H.

2018; 8: 7039

● **Inositol Polyphosphate Multikinase Inhibits Angiogenesis via Inositol Pentakisphosphate-Induced HIF-1 alpha Degradation** *CIRCULATION RESEARCH*

Fu, C., Tyagi, R., Chin, A. C., Rojas, T., Li, R., Guha, P., Bernstein, I. A., Rao, F., Xu, R., Cha, J. Y., Xu, J., Snowman, A. M., Semenza, et al

2018; 122 (3): 457-472