

# Stanford

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## Brent Young

Postdoctoral Scholar, Ophthalmology

### Bio

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#### HONORS AND AWARDS

- Knights Templar Eye Foundation Early Career Award, Knights Templar Eye Foundation (2023-Present)
- Invited presentation, "Rising Stars.", Western chapter of the Association of Biomolecular Resource Facilities (2021)
- Retina Research Foundation/Joseph M. and Eula C. Lawrence grant, ARVO (2016)
- Rio Mesa Fellowship, University of Utah (2012)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of Utah (2019)
- Bachelor of Science, University of Utah (2013)
- B.S., University of Utah, Biology (2013)
- Ph.D., University of Utah, Neuroscience (2019)

#### STANFORD ADVISORS

- Jeffrey Goldberg, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **BDNF and cAMP are neuroprotective in a porcine model of traumatic optic neuropathy.** *JCI insight*  
Heng, K., Young, B. K., Li, B., Nies, A. D., Xia, X., Wen, R. R., Dalal, R., Bramblett, G. T., Holt, A. W., Cleland, J. M., Harris, J. N., Wu, A. Y., Goldberg, et al  
2024
- **The Cousa objective: a long-working distance air objective for multiphoton imaging in vivo.** *Nature methods*  
Yu, C. H., Yu, Y., Adsit, L. M., Chang, J. T., Barchini, J., Moberly, A. H., Benisty, H., Kim, J., Young, B. K., Heng, K., Farinella, D. M., Leikvoll, A., Pavan, et al  
2023
- **Retinal ganglion cell repopulation for vision restoration in optic neuropathy: a roadmap from the RReSTORE Consortium.** *Molecular neurodegeneration*  
Soucy, J. R., Aguzzi, E. A., Cho, J., Gilhooley, M. J., Keuthan, C., Luo, Z., Monavarfeshani, A., Saleem, M. A., Wang, X., Wohlschlegel, J., RReSTORE Consortium, Baranov, P., Di Polo, A., et al  
2023; 18 (1): 64
- **Campana cells in mammalian retinas**  
Du, R., Young, B., Wang, P., Tian, N.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **An uncommon neuronal class conveys visual signals from rods and cones to retinal ganglion cells.** *Proceedings of the National Academy of Sciences of the United States of America*

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- Young, B. K., Ramakrishnan, C., Ganjawala, T., Wang, P., Deisseroth, K., Tian, N.  
2021; 118 (44)
- **The Susceptibility of Retinal Ganglion Cells to Optic Nerve Injury is Type Specific.** *Cells*  
Yang, N., Young, B. K., Wang, P., Tian, N.  
2020; 9 (3)
  - **NMDA receptor activity regulates synaptic connections between retinal ganglion and bipolar cells**  
Young, B., Sanchez, C., Ramakrishnan, C., Wang, P., Deisseroth, K., Tian, N.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
  - **An unique subtype of BCs provides excitatory input to both ON and OFF synaptic pathways from both rods and cones in the retina**  
Tian, N., Young, B., Ramakrishnan, C., Wang, P., Deisseroth, K., Ganjawala, T. H., Pan, Z.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
  - **Virtual reality method to analyze visual recognition in mice.** *PloS one*  
Young, B. K., Brennan, J. N., Wang, P., Tian, N.  
2018; 13 (5): e0196563
  - **Adult zebra finches rehearse highly variable song patterns during sleep.** *PeerJ*  
Young, B. K., Mindlin, G. B., Arneodo, E., Goller, F.  
2017; 5: e4052
  - **Retinal ganglion cell subtype specific circuits in retina**  
Tian, N., Young, B., Huang, K., Wang, P., Ramakrishnan, C., Deisseroth, K.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2016
  - **From the retina to the brain: retinal ganglion cell subtype specific visual circuits**  
Young, B., Wang, P., Ramakrishnan, C., Deisseroth, K., Tian, N.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2016