



Tong Ling

Postdoctoral Research Fellow, Ophthalmology

Bio

STANFORD ADVISORS

- Daniel Palanker, Postdoctoral Faculty Sponsor

LINKS

- Personal website: <https://tongling.people.stanford.edu>

Publications

PUBLICATIONS

- **High-speed interferometric imaging reveals dynamics of neuronal deformation during the action potential.** *Proceedings of the National Academy of Sciences of the United States of America*
Ling, T., Boyle, K. C., Zuckerman, V., Flores, T., Ramakrishnan, C., Deisseroth, K., Palanker, D.
2020
- **Full-field interferometric imaging of propagating action potentials** *LIGHT-SCIENCE & APPLICATIONS*
Ling, T., Boyle, K. C., Goetz, G., Zhou, P., Quan, Y., Alfonso, F. S., Huang, T. W., Palanker, D.
2018; 7
- **Interferometric mapping of material properties using thermal perturbation** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Goetz, G., Ling, T., Gupta, T., Kang, S., Wang, J., Gregory, P. D., Park, B., Palanker, D.
2018; 115 (11): E2499–E2508
- **Reply to Farrell: Experimental evidence is the ultimate judge for model assumptions.** *Proceedings of the National Academy of Sciences of the United States of America*
Ling, T., Boyle, K. C., Palanker, D.
2020
- **Tension change in photoreceptor disk membranes due to early receptor potential causes contraction of the outer segment**
Boyle, K., Chen, Z., Ling, T., Pandiyan, V., Kuchenbecker, J. A., Sabesan, R., Palanker, D. V.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **Characterizing the early response of the optoretinogram**
Pandiyan, V., Kuchenbecker, J. A., Boyle, K. C., Ling, T., Roorda, A., Palanker, D. V., Sabesan, R.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2020
- **The optoretinogram reveals the primary steps of phototransduction in the living human eye.** *Science advances*
Pandiyan, V. P., Maloney-Bertelli, A., Kuchenbecker, J. A., Boyle, K. C., Ling, T., Chen, Z. C., Park, B. H., Roorda, A., Palanker, D., Sabesan, R.
2020; 6 (37)
- **High-precision calibration method for shear ratio based on the shearing wavefront feature extraction of a phase plate** *APPLIED OPTICS*

Zhang, R., Yang, Y., Liang, Z., Jiang, J., Ling, T.

2018; 57 (18): 5121-29

- **Quadriwave lateral shearing interferometric microscopy with wideband sensitivity enhancement for quantitative phase imaging in real time.** *Scientific reports*
Ling, T., Jiang, J., Zhang, R., Yang, Y.
2017; 7 (1): 9
- **General measurement of optical system aberrations with a continuously variable lateral shear ratio by a randomly encoded hybrid grating** *APPLIED OPTICS*
Ling, T., Yang, Y., Liu, D., Yue, X., Jiang, J., Bai, J., Shen, Y.
2015; 54 (30): 8913-8920
- **Quadriwave lateral shearing interferometer based on a randomly encoded hybrid grating** *OPTICS LETTERS*
Ling, T., Liu, D., Yue, X., Yang, Y., Shen, Y., Bai, J.
2015; 40 (10): 2245-2248
- **Common-path and compact wavefront diagnosis system based on cross grating lateral shearing interferometer** *APPLIED OPTICS*
Ling, T., Yang, Y., Yue, X., Liu, D., Ma, Y., Bai, J., Wang, K.
2014; 53 (30): 7144-7152
- **Off-axis cyclic radial shearing interferometer for measurement of centrally blocked transient wavefront** *OPTICS LETTERS*
Ling, T., Liu, D., Yang, Y., Sun, L., Tian, C., Shen, Y.
2013; 38 (14): 2493-2495