

Yimin Wang Ph. D.

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CURRICULUM VITAE

A. Personal Information:

Name in Full	Yimin Wang
Business Address	1355, San Pablo street, DVRC 160B, Los Angeles, CA, 90033
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B. Education:

Institute	Shanghai Institute of Optics and Fine Mechanics, Chinese academy of science, Shanghai, P. R. China Ph. D., 1998 Shanghai Institute of Optics and Fine Mechanics, Chinese academy of science, Shanghai, P. R. China M. Sc, 1995
College or University	Hua Zhong University of Science and Technology, Wuhan, Hubei, P. R. China, Bachelor of Engineering, 1992

C. Professional Background:

Positions:

2006, May--	Assistant research professor, Ophthalmology department, Keck School of Medicine, University of Southern California
2005, Feb-2006, April	Research Scientist, Institute for ultrafast spectroscopy and lasers, physics department, City College at city university of New York
2004, July-2005, Feb	Research Associate, Department of Biomedical Engineering, Duke University
2001, July-2004, June	Research fellow, Beckman Laser Institute, University of California, Irvine
2000, June-2001, July	Contract Researcher, the Institute of Physical and Chemical Research, Japan
1998, July-2000, June	Assistant Professor of Optics, Shanghai Institute of Optics and Fine Mechanics, China

Honors and Awards

The Invention Prize of Chinese Academy of Science in 1998

D. Society Memberships

Optical Society of America (OSA),
Association for research in vision and ophthalmology (ARVO)

E. Research Activities

Major Areas of Research Interest

Ophthalmology, Optical coherence tomography, biomedical imaging

Patents and Inventions

1. **Yimin Wang**, Yang Xiaodong et al., "Single shot autocorrelator"
Patent number ZL 97 2 42755.4(in China)
2. **Yimin Wang**, Xu Zhizhan et al., "Laser pulse contrast ratio measure meter"
Patent number ZL 97 1 06628.0(in China)
3. David Huang, **Yimin Wang**, "Method for total retinal blood flow measurement"
USC file# 3988

BIBLIOGRAPHY

PEER REVIEW

1. **Y. Wang**, A. Fawzi, O. Tan, John Gil-Flamer, and David Huang, "Retinal blood flow detection in diabetic patients by Doppler Fourier domain optical coherence tomography," *Opt. Express*, 17, 4061, (2009)
2. **Y. Wang**, A. Lu, J. Gil-Flamer, O Tan, J A Izatt and D Huang, "Measurement of retinal blood flow in the normal human retina using Doppler Fourier domain optical coherence tomography," *British Journal of Ophthalmology*, 93, 634-637, (2009)
3. **Y. Wang**, B. A. Bower, J. A. Izatt, O. Tan, D. Huang, "Retinal blood flow measurement by circumpapillary Fourier domain Doppler optical coherence," *Journal of Biomedical Optics* *Journal of Biomedical Optics* 13, 064003, (2008)
4. **Y. Wang**, B. A. Bower, J. A. Izatt, O. Tan, and D. Huang, "In vivo total retinal blood flow measurement by Fourier domain Doppler Optical Coherence Tomography," *J. Biomedical Optics*, Vol. 12, 041215-1-8 (2007)
5. **Y. Wang**, J. S. Nelson, Z. Chen, H. Lim, F. Wise, "Broadband light generation in fibers for high resolution optical coherence Tomography," *J. Opt. Soc. Am. A*. Vol. 22, 1492-1499 (2005)
6. B. J. Reiser, T. S. Ignacio, **Y. Wang**, M. Taban, J. m. Graff, P. Sweet, Z. Chen and R. S. Chuck, "In vivo measurement of rabbit corneal epithelial thickness

- using ultrahigh resolution optical coherence tomography,” *Veterinary Ophthalmology*, 8, 85-88 (2005)
7. Y. Jiang, I. V. Tomov, **Y. Wang** and Z. Chen, “High-resolution second-harmonic optical coherence tomography of collagen in rat-tail tendon,” *Appl. Phys. Lett.*, 86, 133901.1-133901.3(2005)
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 9. Y. Jiang, I. Tomov, **Y. Wang**, Z. Chen, “Second harmonic optical coherence tomography,” *Opt. Lett.* Vol. 29, 1090-1092, (2004)
 10. L. Wang, **Yimin Wang**, M. Bachman, G. P. Li, Z. Chen, “Phase-resolved frequency domain optical doppler tomography at 1310 nm,” *Opt. Commun.*, Vol. 242, 345-350 (2004)
 11. **Y. Wang**, Y. Zhao, J. S. Nelson, Z. Chen and R. S. Windeler, “Ultrahigh-resolution optical coherence tomography by broadband continuum generation from a photonic crystal fiber,” *Opt. Lett.*, Vol. 28, 182-184(2003)
 12. **Y. Wang**, J. S. Nelson, B. J. Reiser, R. Chuck, R. S. Windeler, “Optimal wavelength for ultrahigh-resolution optical coherence tomography,” *Opt. Express*, Vol. 11, No. 12, 1411-1417(2003)
 13. **Y. Wang**, N. Saito, S. Wada, and H. Tashiro, “Narrow-band, widely electronically tuned frequency-shifted feedback laser,” *Opt. Lett.*, Vol.27, 515-517(2002)
 14. **Y. Wang**, N. Saito, H. Tashiro, “Unidirectional operation of a ring laser by means of anisotropic acousto-optic Device,” *Opt. Commu.*, Vol. 207, 279-285(2002)
 15. **Y. Wang**, Y. Liu, Y. Zhang “Influence of the pump beam mode in a longitudinal pumped CW Ti:sapphire laser,” *Chinese Journal of lasers*, 23(2): 111-116, 1996
 16. **Y. Wang**, Y. Liu, Y. Zhang, Y. Zhao “Analysis cavity of a self mode locked Ti:sapphire laser,” *ACTA Optica Sinica*, 16(1): 20-23, 1996
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 19. **Y. Wang**, C. Li, S. Han, Z. Hang, Z. Xu, “Single-shot measurement of Amplified Femtosecond laser pulses,” *Chinese Journal of Lasers*, 25(2): 132-134, 1998
 20. **Y. Wang**, S. Han, Z. Zhang, Z. Xu, “Contrast ratio measurement of laser pulses using correlation technology,” *ACTA Optica Sinica*, 17(4): 493-496, 1997
 21. B. Xu, J. Zhou, **Y. Wang**, Z. Xu, “Self starting, stable ultrashort-pulsed Ti:Sapphire laser with low pump power,” *ACTA Optica Sinica*, 16(7): 1023-1024, 1996
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Conference Proceeding

1. **Yimin Wang**, Yonghua Zhao, Zhihua Ding, Z. Chen, "High-resolution OCT using continuum generation from a photonic crystal fiber," Proceeding of SPIE, Volume, 4619, 244-248(2002)
2. **Yimin Wang**, Yonghua Zhao, Hongwu Ren, J. S. Nelson, and Zhongping Chen, "Ultrahigh-resolution optical coherent tomography using continuum generation from a photonic crystal fiber" Proceeding of SPIE, Volume, 4956, 147-153 (2003)
3. **Yimin Wang**, Ivan Tomov, J. Stuart Nelson, Hyungsik Lim, Frank Wise, "Wideband light generation from a small core diameter single mode optical fiber for high-resolution optical coherence tomography" Proceeding of SPIE, Vol. 5316, 324-331 (2004)
4. Hongwu Ren, **Yimin Wang**, J. Stuart Nelson, Z. Chen, "Power optical doppler tomography imaging of blood vessel in human skin and M-mode Doppler imaging of blood flow in chick chorioallantoic membrane," Proceeding of SPIE, Volume, 4956, 225-231 (2003)
5. Hongwu Ren, **Yimin Wang**, Z. Ding, Y. Zhao, J. S. Nelson, Z. Chen, "Phase-resolved polarization sensitive optical coherence tomography imaging of tendon and muscle," Proceeding of SPIE, Volume, 4956, 320-328 (2003)
6. Lei Wang, **Yimin Wang**, Mark Bachman, Guann Pyng Li, Z. Chen, "Phase-resolved frequency domain optical Doppler tomography," Proceeding of SPIE, Vol. 5316, 432-438 (2004)
7. Bradley A. Bower, Mingtao Zhao, **Yimin Wang**, Albert Chu, Robert J. Zawadzki, Marinko V. Sarunic, Joseph A. Izatt, "Rapid volumetric imaging of the human retina in vivo using a low-cost spectral domain optical coherence tomography system," Proceeding of SPIE, Vol. 5690, 79-84 (2005)
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10. Yimin Wang, Ou Tan, David Huang, "In vivo retinal blood flow measurement by Fourier domain Doppler optical coherence tomography," Proceeding of SPIE, Vol. 6847, 68470G-1-8 (2008)
11. Yimin Wang, Ou Tan, David Huang, "Investigation of retinal blood flow in glaucoma patients by Fourier-Domain Doppler optical coherence tomography", presented at Association of Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, April 26-May1, 2008.

12. Yimin Wang, Ou Tan, David Huang, "Investigation of retinal blood flow in normal and glaucoma subjects by Doppler Fourier-domain optical coherence tomography," Proceeding of SPIE, Vol. 7168, 71680B-1-10 (2009)
13. Yimin Wang, Amani A. Fawzi, Divya Aggarwal, Ou Tan, Alfredo A. Sadun, David Huang, "Doppler optical coherence tomography measurement of retinal blood flow in optic neuropathies and retinal diseases", presented at Association of Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL, May 3-7, 2009.