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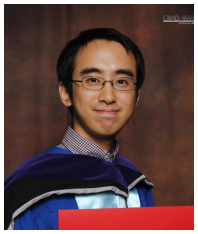

Research Interests

Photonics − Fiber-Optic Sensors; Interferometric NIR spectroscopy;
Plasmonics − Optical Properties of Ultrathin Gold Films;

Education

Jan. 2012 – Apr. 2015 **Carleton University,** Canada
Doctor of Philosophy (GPA: 12.0/12.0)
Electrical and Computer Engineering (Photonic Systems)
Ph. D. Thesis: *Effective Optical Properties of Ultrathin Gold Coatings Investigated by Tilted Fiber Bragg Grating*

Sep. 2008 – Mar. 2011 **China Jiliang University,** China
Master of Science in Engineering
Optical Engineering
M. Sc. Thesis: *Study on Novel Fiber Bragg Grating Sensors for Multi-Parametric Measurement*

Sep. 2004 – Jun. 2008 **China Jiliang University,** China
Bachelor of Science
Science and Technology of Optical Information

Research Experience

Jul. 2016 – present **Postdoctoral Fellow**
Neurophotonics Lab (PI: Prof. Vivek J. Srinivasan)
Department of Biomedical Engineering, University of California, Davis
451 East Health Sciences Drive, Davis, CA 95616, USA

May 2015 – Jun. 2016 **Postdoctoral Research Associate**
Advanced Photonic Components Group (PI: Prof. Jacques Albert)
Department of Electronics, Carleton University
1125 Colonel By Drive, Ottawa, ON K1S 5B6, Canada

Jan. 2012 – Apr. 2015 **Research Assistantship**
Advanced Photonic Components Group (PI: Prof. Jacques Albert)
Department of Electronics, Carleton University
1125 Colonel By Drive, Ottawa, ON K1S 5B6, Canada

Jul. 2010 – Dec. 2010 **Visiting Project Officer**
Optical Fiber Sensor Group (PI: Prof. Chi Chiu Chan)

Division of Bioengineering, Nanyang Technological University
62 Nanyang Drive, Singapore 637722, Singapore

Awards & Scholarships

Jun. 2015	Award: Senate Medal for Outstanding Academic Achievement of Carleton University
Apr. 2015	Award: 2014-2015 Graduate Student Open Access Award of Carleton University
May 2014	Award: Graduate Student Travel / Research Bursary of Carleton University
Mar. 2014	Scholarship: 2013 Chinese Government Award for Outstanding Self-Financed Students Abroad
2012-2015	Scholarship: Graduate Scholarship (Departmental Scholarship) of Carleton University
Aug. 2011	Award: 7th China Youth Science and Technology Innovation Awards
May 2011	Award: Outstanding Graduates of Zhejiang Province
Oct. 2010	Scholarship: Top Grade Prize of China Instrument and Control Society Scholarships
Oct. 2010	Scholarship: First Grade Prize of Outstanding Graduate Students of China Jiliang University

Journal Publications

1. D. Feng†, **W. Zhou**†, X. Qiao, J. Albert, "High resolution fiber optic surface plasmon resonance sensors with single-sided gold coatings," ***Optics Express*** 24(15), 16456-16464 (Jul. 2016). (†equal contribution)
2. D. J. Mandia†, **W. Zhou**†, M. J. Ward, H. Joress, J. J. Sims, J. B. Giorgi, J. Albert, and S. T. Barry, "The effect of ALD-grown Al_2O_3 on the refractive index sensitivity of CVD-coated optical fiber sensors," ***Nanotechnology*** 26(43), 434002 (Oct. 2015). (†equal contribution)
3. **W. Zhou**, D. J. Mandia, S. T. Barry, and J. Albert, "Absolute near-infrared refractometry with a calibrated tilted fiber Bragg grating," ***Optics Letters*** 40(8), 1713-1716 (Apr. 2015).
4. **W. Zhou**, D. J. Mandia, S. T. Barry, and J. Albert, "Anisotropic effective permittivity of an ultrathin gold coating on optical fiber in air, water and saline solutions," ***Optics Express*** 22(26), 31665-31676 (Dec. 2014).
5. **W. Zhou**, D. J. Mandia, M. B.E. Griffiths, S. T. Barry, and J. Albert, "Effective permittivity of ultrathin chemical vapor deposited gold films on optical fibers at infrared wavelengths," ***The Journal of Physical Chemistry*** C 118(1), 670-678 (Jan. 2014).
6. **W. Zhou**, D. J. Mandia, M. B.E. Griffiths, A. Bialiayeu, Y. Zhang, P. G. Gordon, S. T. Barry, and J. Albert, "Polarization-dependent properties of the cladding modes of a single mode fiber covered with gold nanoparticles," ***Optics Express*** 21(1), 245-255 (Jan. 2013).
7. **W. Zhou**, Y. Zhou, X. Dong, L.-Y. Shao, J. Cheng, and J. Albert, "Fiber-optic curvature sensor based on cladding-mode Bragg grating excited by fiber multimode interferometer," ***IEEE Photonics Journal*** 4(3), 1051-1057 (Jun. 2012).

8. **W. Zhou**, W. C. Wong, C. C. Chan, L.-Y. Shao, and X. Dong, "Highly sensitive fiber loop ringdown strain sensor using photonic crystal fiber interferometer," ***Applied Optics*** 50(19), 3087-3092 (Jul. 2011).
9. **W. Zhou**, X. Dong, L.-Y. Shao, C. C. Chan, C.-L. Zhao, and P. Shum, "Compact refractometer based on extrinsic-phase-shift fiber Bragg grating," ***Sensors and Actuators A: Physical*** 168(1), 46-50 (Jul. 2011).
10. **W. Zhou**, X. Dong, C. Shen, C.-L. Zhao, C. C. Chan, and P. Shum, "Temperature-independent vibration sensor with a fiber Bragg grating," ***Microwave and Optical Technology Letters*** 52(10), 2282-2285 (Oct. 2010).
11. **W. Zhou**, C.-L. Zhao, X. Dong, S. Zhang, C. C. Chan, and P. Shum, "Simultaneous measurement of force and temperature based on a half corroded FBG," ***Microwave and Optical Technology Letters*** 52(9), 2020-2023 (Sep. 2010).
12. **W. Zhou**, X. Dong, K. Ni, C. C. Chan, and P. Shum, "Temperature-insensitive accelerometer based on a strain-chirped FBG," ***Sensors and Actuators A: Physical*** 157(1), 15-18 (Jan. 2010).
13. D. Feng, **W. Zhou**, X. Qiao, and J. Albert, "Compact optical fiber 3D shape sensor based on a pair of orthogonal tilted fiber Bragg gratings," ***Scientific Reports*** 5, 17415 (Nov. 2015).
14. D. J. Mandia, **W. Zhou**, J. Albert, and S. T. Barry, "Chemical vapor deposition on optical fibers: tilted fiber Bragg gratings as real-time sensing platforms," ***Chemical Vapor Deposition*** 21(1-2-3), 4-20 (Mar. 2015).
15. C. Shen, **W. Zhou**, and J. Albert, "Polarization-resolved evanescent wave scattering from gold-coated tilted fiber gratings," ***Optics Express*** 22(5), 5277-5282 (Mar. 2014).
16. C. Shen, Y. Zhang, **W. Zhou**, and J. Albert, "Au-coated tilted fiber Bragg grating twist sensor based on surface plasmon resonance," ***Applied Physics Letters*** 104(7), 071106 (Feb. 2014).
17. D. J. Mandia, M. B.E. Griffiths, **W. Zhou**, P. G. Gordon, J. Albert, and S. T. Barry, "In Situ Deposition Monitoring by a Tilted Fiber Bragg Grating Optical Probe: Probing Nucleation in Chemical Vapour Deposition of Gold," ***Physics Procedia*** 46, 12-20 (2013).
18. X. Dong, Y. Zhou, **W. Zhou**, J. Cheng, and Z. Su, "Compact anemometer using silver-coated fiber Bragg grating," ***IEEE Photonics Journal*** 4(5), 1381-1386 (Oct. 2012).
19. W. C. Wong, **W. Zhou**, C. C. Chan, X. Dong, and K. C. Leong, "Cavity ringdown refractive index sensor using photonic crystal fiber interferometer," ***Sensors and Actuators B: Chemical*** 161(1), 108-113 (Jan. 2012).
20. Y. Zhou, **W. Zhou**, C. C. Chan, W. C. Wong, L.-Y. Shao, J. Cheng, and X. Dong, "Simultaneous measurement of curvature and temperature based on PCF-based interferometer and fiber Bragg grating," ***Optics Communications*** 284(24), 5669-5672 (Dec. 2011).

Memberships

OSA member (999289), since Feb. 2013
SPIE member (3291789), since Mar. 2012

References

Prof. Jacques Albert (Ph.D. supervisor)
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