

# Andreas Pospori

Date of Birth: 5 April 1989

Nationality: Cypriot

Email: andreas.pospori@gmail.com

Website: pospori.weebly.com

Telephone: +357 96696273

## *Education*

- Oct. 2014 – Sep. 2017 **PhD – Photonics Engineering**  
Aston University, Birmingham, UK  
Scientific research focused on fibre-optic sensors
- Sep. 2009 – Jun. 2013 **BSc – Electrical Engineering**  
Cyprus University of Technology, Limassol, Cyprus  
BSc grade: 7.71/10 “Very good”
- Sep. 2004 – Jun. 2007 **High School Diploma**  
Arhiepiskopou Makariou III High School, Larnaca, Cyprus  
Apolytirion grade: 18.6/20 “Excellent”

## *Work Experience*

- Feb. 2018 – Present **Project Manager – Cyprus University of Technology**  
Title of project: InterRegional Cultural HERitage Management E-System (IRC-HERMES)
- Senior Project Manager in a large-scale project, which consists of 7 beneficiaries located in 4 countries (Cyprus, Greece, Albania and FYROM). The project, as part of the Balkan – Mediterranean Cooperation Programme, is co-financed by the European Regional Development Fund (ERDF), the Instrument for Pre-Accession Assistance (IPA) and national funds, with an approved budget over a million euro.
  - Responsibilities involve the overall organisation of the project and co-ordination among the involved partners, ensuring that tasks are fulfilled according to the scheduled timeframe, the foreseen resources and the division of responsibilities among partners; monitoring the progress of the project; ensuring proper information flow with the Programme bodies, as well as with and among the project partners.
- Nov. 2017 – Jan. 2018 **Electrician – Giorgos Geropapa**  
Acquired knowledge and skills for electrical installation, maintenance and repair of electrical systems and equipment in commercial, residential, agricultural and industrial settings.

Feb. 2014 – Feb. 2017 **Research Scientist – Aston University**

Involved in a project entitled “Training and Research Involving Polymer Optical Devices” (TRIPOD), which has received funding from the European Union’s Seventh Framework Programme (Marie Curie Innovating Training Network Actions). The project was focused on optical fibre sensors.

Main tasks and roles:

- Simulation of optical fibre Bragg gratings and interferometric sensors to evaluate their performance.
- Fabrication of fibre-optic sensors using UV laser systems.
- Characterisation and optimisation of sensors for prototypes development.
- Reduction of fabrication cost and enhancement of system resolution.
- Manager of 2 high-tech laboratories at Aston University.
- Chairman of the Publicity and Outreach Committee of TRIPOD project.
- Work package leader of TRIPOD project.
- Organising conference and outreach events.
- Reports preparation for European Commission.

## ***Publications***

### **Journal articles**

1. **A. Pospori**, C. A. F. Marques, G. Sagias, H. Lamela-Rivera, D. J. Webb, “Novel thermal annealing methodology for permanent tuning polymer optical fiber Bragg gratings to longer wavelengths,” *Opt. Express*, vol. 26, no. 2, pp. 1411-1421, 2018.
2. L. M. Pereira, **A. Pospori**, P. Antunes, M. F. Domingues, S. Marques, O. Bang, D. J. Webb, and C. A. F. Marques, “Phase-Shifted Bragg Grating Inscription in PMMA Microstructured POF Using 248-nm UV Radiation,” *J. Lightwave Technol.*, vol. 35, no. 23, pp. 5176-5184, 2017.
3. **A. Pospori**, C. A.F. Marques, D. J. Webb, P. André, “Polymer optical fiber Bragg grating inscription with a single UV laser pulse,” *Opt. Express*, vol. 25, no. 8, pp. 9028-9038, 2017.
4. C.A. F. Marques, **A. Pospori**, D. J. Webb, “Time-dependent variation of POF Bragg grating reflectivity and wavelength submerged in different liquids,” *Opt. Laser Technol.*, vol. 94, pp. 234-239, 2017.
5. **A. Pospori**, D. J. Webb, “Stress Sensitivity Analysis of Polymer Optical Fiber Based Fabry-Pérot Interferometric Sensor,” *J. Lightwave Technol.*, vol. 35, no. 13, 2017.

6. C. A. F. Marques, **A. Pospori**, G. Demirci, O. Çetinkaya, B. Gawdzik, P. Antunes, O. Bang, P. Mergo, P. André, D. J. Webb, “Fast Bragg Grating Inscription in PMMA Polymer Optical Fibres: Impact of Thermal Pre-Treatment of Preforms,” *Sensors*, vol. 17, no. 4, p. 891, 2017.
7. **A. Pospori**, C. A. F. Marques, D. Sáez-Rodríguez, K. Nielsen, O. Bang, D. J. Webb, “Thermal and chemical treatment of polymer optical fiber Bragg grating sensors for enhanced mechanical sensitivity,” *Opt. Fiber Technol.*, vol. 36, pp. 68-74, 2017.
8. C. A. F. Marques, **A. Pospori**, D. Sáez-Rodríguez, K. Nielsen, O. Bang, D. J. Webb, “Aviation fuel gauging sensor utilizing multiple diaphragm sensors incorporating polymer optical fiber Bragg gratings,” *Sensors*, vol. 16, no. 15, pp. 6122-6129, 2016.
9. B. Yao, Y. Wu, D. J. Webb, J. Zhou, Y. Rao, **A. Pospori**, C. Yu, Y. Gong, Y. Chen, “Graphene-Based D-Shaped Polymer FBG for Highly Sensitive Erythrocyte Detection,” *Photon. Technol. Lett.*, vol. 27, no. 22, pp. 2399-2402, 2015.
10. K. Kalli, C. Riziotis, **A. Pospori**, C. Markos, C. Koutsides, S. Ambran, A. S. Webb, C. Holmes, J. C. Gates, J. K. Sahu, and P. G. Smith, “Flat fibre and femtosecond laser technology as a novel photonic integration platform for optofluidic based biosensing devices and lab-on-chip applications: Current results and future perspectives,” *Sens. Actuators B Chem.*, vol. 209, pp. 1030-1040, 2015.

### Conference papers

11. C. A. F. Marques, **A. Pospori**, L. Pereira, P. Antunes, M. F. Domingues, O. Bang, D. Webb, and P. André, “Advances in POF Bragg grating sensors inscription using only one laser pulse for photonic applications,” in *26th International Conference on Plastic Optical Fibres*, vol. 26, p. 75, 2017.
12. C. A. F. Marques, **A. Pospori**, L. Pereira, S. Marques, P. Antunes, O. Bang, D. J. Webb, and P. André, “High-quality phase-shifted Bragg grating sensor inscribed with only one laser pulse in a polymer optical fiber,” in *International Microwave and Optoelectronics Conference*, pp. 1-4, 2017.
13. G. Sagias, **A. Pospori**, D. J. Webb, H. L. Rivera, “Wavelength tuning of polymer optical fibre Bragg grating at longer wavelengths permanently,” Proc. SPIE 10453 in *Third International Conference on Applications of Optics and Photonics*, 1045333, 2017.
14. C. A. F. Marques, **A. Pospori**, P. Mergo, P. André, D. J. Webb, “Impact of thermal pre-treatment on preforms for fast Bragg gratings inscription using undoped PMMA POFs,” Proc. SPIE 10232 in *Optics & Optoelectronics, Micro-structured and Specialty Optical Fibres V*, 102320A, 2017.

15. **A. Pospori**, C. A. F. Marques, D. Sáez-Rodríguez, K. Nielsen, O. Bang, D. J. Webb, “Annealing and etching effects on strain and stress sensitivity of polymer optical fibre Bragg grating sensors,” in *25th International Conference on Plastic Optical Fibres*, published by Aston University Research Archive, pp. 260-263, ISBN: 9781854494085, 2016.
16. C. A. F. Marques, **A. Pospori**, G. Demirci, O. Çetinkaya, B. Gawdzik, P. Antunes, O. Bang, P. Mergo, P. André, D. J. Webb, “Bragg gratings inscription using PMMA polymer optical fibers drawn from preforms with specific thermal pre-treatment,” in *25th International Conference on Plastic Optical Fibres*, published by Aston University Research Archive, pp. 40-45, ISBN: 9781854494085, 2016.
17. **A. Pospori**, C. A. F. Marques, D. Sáez-Rodríguez, K. Nielsen, O. Bang, D. J. Webb, “Sensitivity enhancement using annealed polymer optical-fibre-based sensors for pressure sensing application,” Proc. SPIE 9916 in *Sixth European Workshop on Optical Fibre Sensors (EWOFS)*, 99160E, 2016.
18. **A. Pospori**, D. J. Webb, “Performance analysis of polymer optical fibre based Fabry-Pérot sensor formed by two uniform Bragg gratings,” Proc. SPIE 9886 in *Photonics Europe, Micro-Structured and Specialty Optical Fibres IV*, 98861F, 2016.
19. **A. Pospori**, C. A. F. Marques, M. G. Zubel, D. Sáez-Rodríguez, K. Nielsen, O. Bang, D. J. Webb, “Annealing effects on strain and stress sensitivity of polymer optical fibre based sensors,” Proc. SPIE 9886 in *Photonics Europe, Micro-Structured and Specialty Optical Fibres IV*, 98860V, 2016.
20. C. A. F. Marques, **A. Pospori**, D. Sáez-Rodríguez, K. Nielsen, O. Bang, D. J. Webb, “Fuel level sensor based on polymer optical Fiber Bragg gratings for aircraft applications,” Proc. SPIE 9886 in *Photonics Europe, Micro-Structured and Specialty Optical Fibres IV*, 98860W, 2016.
21. C. Broadway, D. Gallego, **A. Pospori**, M. Zubel, D. J. Webb, K. Sugden, G. Carpintero, H. Lamela, “Microstructured polymer optical fibre sensors for opto-acoustic endoscopy,” Proc. SPIE 9886 in *Photonics Europe, Micro-Structured and Specialty Optical Fibres IV*, 98860S, 2016.
22. C. Broadway, D. Gallego, **A. Pospori**, M. Zubel, D. J. Webb, K. Sugden, G. Carpintero, H. Lamela, “A compact polymer optical fibre ultrasound detector,” Proc. SPIE 9708 in *Photonics West BiOS, Photons Plus Ultrasound: Imaging and Sensing* 2016, 970813, 2016.
23. C. A. F. Marques, **A. Pospori**, D. Sáez-Rodríguez, K. Nielsen, O. Bang, D. J. Webb, “High performance liquid-level sensor based on mPOFBG for aircraft applications,” in *IEEE Avionics and Vehicle Fiber-Optics and Photonics Conference (AVFOP)*, ISBN: 9781479974825, 2015.

24. **A. Pospori**, D. J. Webb, “Optimisation of polymer optical fibre based interferometric sensors,” Proc. SPIE 9507 in *Optics & Optoelectronics, Micro-structured and Specialty Optical Fibres IV*, 95070M, 2015.
25. C. A. F. Marques, **A. Pospori**, D. Sáez-Rodríguez, K. Nielsen, O. Bang, D. J. Webb, “Fiber optic liquid level monitoring system using microstructured polymer fiber Bragg grating array sensors: performance analysis,” Proc. SPIE 9634 in *International Conference on Optical Fibre Sensors (OFS24)*, 96345V, 2015.
26. C. Broadway, D. Gallego, G. Woyessa, **A. Pospori**, O. Bang, D. J. Webb, G. Carpintero, H. Lamela, “Polymer Optical Fibre Sensors for Endoscopic Opto-Acoustic Imaging,” Proc. SPIE 9539 in *European Conference on Biomedical Optics, Opto-Acoustic Methods and Applications in Biophotonics II*, 953907, 2015.
27. C. Broadway, D. Gallego, G. Woyessa, **A. Pospori**, G. Carpintero, O. Bang, K. Sugden, H. Lamela, “Fabry-Pérot micro-structured polymer optical fibre sensors for opto-acoustic endoscopy,” Proc. SPIE 9531 in *Biophotonics South America*, 953116, 2015.
28. C. Riziotis, K. Kalli, C. Markos, **A. Pospori**, C. Koutsides, A. S. Webb, C. Holmes, J. C. Gates, J. K. Sahu, and P. G. Smith, “Flexible glass flat-fibre chips and femtosecond laser inscription as enabling technologies for photonic devices,” Proc. SPIE 8982 in *Photonics West, Optical Components and Materials XI*, 89820G, 2014.
29. K. Kalli, C. Markos, **A. Pospori**, C. Koutsides, C. Riziotis, A. S. Webb, J. K. Sahu, C. Holmes, J. C. Gates, and P. G. Smith, “Femtosecond laser inscription and micromachining in novel flexible glass flat-fibre chips,” Proc. SPIE 8924 in *Asia Pacific Optical Sensors Conference*, 89240Z, 2013.

### ***International Conference Presentations***

- International Conference on Plastic Optical Fibres 2016, Birmingham, UK
- European Workshop on Optical Fibre Sensors 2016, Limerick, Ireland
- SPIE Photonics Europe 2016, Brussels, Belgium
- Midlands Innovation Photonics Event 2016, Birmingham, UK (invited talk)
- SPIE Optics and Optoelectronics 2015, Prague, Czech Republic

### ***Computer Related Skills***

- Programming: **MATLAB, C, C++, VHDL, Assembly**
- Simulation packages: **Verilog, ModelSim, PSIM, PSpice**
- Data analysis: **OriginLab**
- Document preparation system: **LaTeX**

## ***Administrative Experience and Leadership Roles***

- Senior Project Manager in a research project co-funded by European Union.
- Manager of 2 optical laboratories for 2 years at Aston University, UK.
- Chairman of the Publicity and Outreach Committee of TRIPOD project.
- Member of Organising Committee for the “25<sup>th</sup> International Conference on Plastic Optical Fibres 2016”, Birmingham, UK.
- Students’ representative in Research Degrees Committee of School of Engineering & Applied Science at Aston University, UK.
- Students’ representative at Aston Institute of Photonic Technologies board at Aston University, UK.
- Work package leader of TRIPOD project.
- Certified technical scientific paper reviewer for international journals: Optical Fiber Technology (Elsevier), Sensors (MDPI), Optical Engineering (SPIE journal), Journal of Lightwave Technology (IEEE), Photonics Technology Letters (IEEE), Optics Letters (OSA), Optics Express (OSA), Sensors & Actuators: A. Physical (Elsevier).
- Expert evaluator for the submitted EU research proposals (No. EX2018D325113).

## ***Training***

| <b>Name of Course/Workshop</b> | <b>Location</b> | <b>Organiser</b> | <b>Duration (hours)</b> |
|--------------------------------|-----------------|------------------|-------------------------|
| Project Management             | Birmingham, UK  | TRIPOD           | 7                       |
| Intellectual Property          | Birmingham, UK  | TRIPOD           | 2.5                     |
| Technology Transfer            | Switzerland     | COST TD1001      | 1                       |
| Patents                        | Switzerland     | COST TD1001      | 1                       |
| Business Strategy & Marketing  | London, UK      | Wearegrow.com    | 4                       |
| Safety & Risk Assessment       | Birmingham, UK  | Aston University | 1                       |
| Team Working                   | Birmingham, UK  | TRIPOD           | 3                       |
| Motivate Others                | Birmingham, UK  | Aston University | 2                       |
| Managing Your Time             | Birmingham, UK  | Aston University | 2                       |
| Research Ethics                | Birmingham, UK  | Aston University | 1                       |
| Tutoring Small Groups          | Birmingham, UK  | TRIPOD           | 2                       |