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CURRICULUM VITAE ET STUDIORUM

LUCA SCHENATO

Personal Details

Gender: Male
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Education

07/1998	High school diploma (Scientific Lycee) cum laude.
10/2003	Laurea Degree (5 years program, MSc equivalent) cum laude in Telecommunication Engineering (Specialization: "Optical Communication") at the University of Padova, Italy. Thesis: *Analysis of the transient behaviour of the Polarization Mode Dispersion in periodic spun fibers.* Tutor: prof. A. Galtarossa.

11/2003 Engineer habilitation granted by Engineers Association of Padova.

03/2007 Ph.D. degree in Electronic and Telecommunication Engineering at the University of Padova, Italy, Department of Information Engineering.
Project area: *Photonics and Electromagnetism in Telecommunication Engineering*.
Thesis: *Polarization mode dispersion in spun single-mode fibers*. Tutor: prof. A. Galtarossa.

Fellowships

01/2007–03/2008 Research fellowship at the Dept. of Information Engineer of the University of Padova. Project title: Optical fiber for slow- and fast-light applications. Tutor: prof. A. Galtarossa.

04/2008–03/2010 Research fellowship at the Dept. of Information Engineer of the University of Padova. Project title: Reflectometric measurements for the characterization of optical fibers and fiber-based devices. Tutor: prof. M. Santagiustina.

04/2010–11/2010 Post-Doctoral grant at the Dept. of Information Engineer of the University of Padova in the framework of the Cariparo Founded project "Innovative integrated Systems for Monitoring and assessment of hIgh risk LANDslides" (SMILAND). Project title: "Optical fiber polarimetric techniques for ultra high resolution measurements". Tutor: prof. A. Galtarossa.

12/2010–NOW Post-Doctoral Researcher at the Research Institute for Hydro-Geological Protection (Padova Unit) of the National Research Council of Italy with a project on Optical Fiber Sensor for Hydro-Geological application.

Awards

2003 Awarded the "Antonio Sarpi" gold medal for the best graduate student of the Faculty of Engineering of the University of Padova for the academic year 2002/03.

2007 and 2008 In 2007 and 2008 he has been nominated for "C. Offelli Award" selection for best young researchers in the Department of Information Engineering, University of Padova.

International Experiences

04/2004–10/2004 Internship as visiting graduated student at the Gwangju Institute of Science and Technology, Gwangju, South Korea, in the framework of the Project of Particular Relevance "New Generation Fiber Optics and All-Fiber Devices" (2004-2006), established between the Italian Republic and the Republic of Korea. Italian supervisor: prof. A. Galtarossa. Korean supervisor: prof. U. C. Paek.

02/2006–08/2006 Internship as Research Scholar at Bell Labs (Lucent Technologies) in Holmdel, New Jersey, US. Research activity on parametric amplification in optical fiber (spun/unspun) affected by polarization mode dispersion. References: dr. R. Jopson, dr. C. J. McKinstrie.

Working Experiences

11/2003–12/2003 In charge of the project "Numerical calculation on PMD emulator data" by the Dept. of Information Engineering, University of Padova.

Teaching Experiences

05/2005–06/2005 Assistant activity in "Optical Circuit Laboratory" class (Telecommunication Engineer undergraduated course). Teacher: prof. Luca Palmieri.

04/2007–06/2007 Assistant activity in "Optical Circuit Laboratory" class (2nd Level Master of Applied Optics, University of Padova). Teacher: prof. Luca Palmieri.

01/2008–03/2008 Assistant activity in "Microwaves" and "Microwave devices" classes (Telecommunication and Electronic Engineer undergraduated course). Teacher: prof. Andrea Galtarossa.

05/2008–06/2008 Assistant activity in "Optical Circuit Laboratory" class (2nd Level Master of Applied Optics, University of Padova). Teacher: prof. Luca Palmieri.

10/2008–01/2009 Assistant activity in "Radio Technologies for Aerospace Engineering" class (Aerospace Engineer undergraduated course). Teacher: prof. Andrea Galtarossa.

05/2009–06/2009 Assistant activity in "Optical Circuit Laboratory" class (2nd Level Master of Applied Optics, University of Padova). Teacher: prof. Luca Palmieri.

Referee Activity

He is a referee for IEEE Journal of Lightwave Technology, Optics Express, Optics letters and Optical Fiber Technology.

Language Knowledge

Italian	Native
English	Fluently (read, written, spoken)

References

These persons are familiar with my professional qualifications and my character:

Dr. Alessandro Pasuto

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List of Publications

Publications of dr. Schenato are the following: 1 international patent, 22 peer-review journal papers, 20 international conference papers, 19 national conference papers and 5 abstract papers. Journal papers have been published in:

(a) Comptes Rendus Physique – IF 1.384;

(b) Fiber And Integrated Optics – IF 0.425;

(c) IEEE Journal of Lightwave Technology – IF 2.185;

(d) IEEE Photonics Technology Letters – IF 1.815;

(e) Optical Fiber Technology – IF 0.939;

(f) Optics Letters – IF 3.059;

(g) Optics Express – IF 3.278.

They have been cited more than 80 times, in total, with h-index of 8 (source: ISI WEB of Knowledge).

Patent

[1] A. Galtarossa, P. Griggio, L. Palmieri, A. Pizzinat, and L. Schenato, "Optical fibers with very long polarization correlation length and method for obtaining very long polarization correlation length", PCT WO 2006006192, 2006.

International Peer-Review Papers

[1] M. Santagiustina and L. Schenato, "Single-pump parametric amplification in randomly birefringent unidirectionally spun fibers", *IEEE Photonics Technology Letters*, vol. 22, no. 2, pp. 73–75, Jan. 2010, ISSN: 1041-1135. DOI: 10.1109/LPT.2009.2036142.

[2] L. Schenato, M. Park, L. Palmieri, S. Lee, R. Sassi, A. Galtarossa, and K. Oh, "Characterization of a novel dual-core elliptical hollow optical fiber with wavelength decreasing differential group delay", *Opt. Express*, vol. 18, no. 19, pp. 20 344–20 349, Sep. 2010. [Online]. Available: http://www.opticsexpress.org/abstract.cfm?URI=oe-18-19-20344.

[3] R. Cigliutti, A. Galtarossa, M. Giltrelli, D. Grosso, A. W. R. Leitch, L. Palmieri, S. Santoni, L. Schenato, and D. Waswa, "Design, estimation and experimental validation of optical Polarization Mode Dispersion Compensator in 40 Gbit/s NRZ AND RZ optical systems", *Optical Fiber Technology*, vol. 15, no. 3, pp. 242–250, Jun. 2009. DOI: 10.1016/j.yofte.2008.11.004. [Online]. Available: http://www.sciencedirect.com/science/article/B6WP0-4VCNF44-1/2/5f3f7329924cde88ea2fcec9874f4e35.

[4] M. Santagiustina, L. Schenato, and C. Someda, "Polarization control for slow and fast light in fiber optical, raman-assisted, parametric amplification", *Comptes Rendus Physique*, vol. 10, no. 10, pp. 980 –990, Dec. 2009, ISSN: 1631-0705. DOI: 10.1016/j.crhy.2009.09.002. [Online]. Available: http://www.sciencedirect.com/science/article/B6X19-4Y29T0Y-1/2/027264bc33e85788c438e87c6d10701d.

[5] E. Bettini, A. Galtarossa, L. Palmieri, M. Santagiustina, L. Schenato, and L. Ursini, "Polarized Backward Raman Amplification in Unidirectionally Spun Fibers", *IEEE Photonics Technology Letters*, vol. 20, no. 1, pp. 27–29, Jan. 2008, ISSN: 1041-1135. DOI: 10.1109/LPT.2007.911517.

[6] A. Galtarossa, D. Grosso, L. Palmieri, and L. Schenato, "Distributed Polarization-Mode-Dispersion Measurement in Fiber Links by Polarization-Sensitive Reflectometric Techniques", *IEEE Photonics Technology Letters*, vol. 20, no. 23, pp. 1944–1946, Dec. 2008, ISSN: 1041-1135. DOI: 10.1109/LPT.2008.2005482.

[7] ——, "Reflectometric characterization of hinges in optical fiber links", *IEEE Photonics Technology Letters*, vol. 20, no. 10, pp. 854–856, May 2008. DOI: 10.1109/LPT.2008.921845.

[8] A. Galtarossa, M. Guglielmucci, L. Palmieri, L. Schenato, and C. G. Someda, "Modeling and design of low-PMD spun fiber", *Fiber and Integrated Optics*, vol. 27, no. 4, pp. 216–222, Jul. 2008. DOI: 10.1080/01468030802191841.

[9] A. Galtarossa, L. Palmieri, M. Santagiustina, L. Schenato, and L. Ursini, "Polarized Brillouin Amplification in Randomly Birefringent and Unidirectionally Spun Fibers", *IEEE Photonics Technology Letters*, vol. 20, no. 16, pp. 1420–1422, Aug. 2008, ISSN: 1041-1135. DOI: 10.1109/LPT.2008.927884.

[10] A. Galtarossa, L. Palmieri, and L. Schenato, "About the Differential Group Delay of Spun Fibers", *IEEE Journal of Lightwave Technology*, vol. 26, no. 22, pp. 3660–3668, Nov. 2008, ISSN: 0733-8724. DOI: 10.1109/JLT.2008.925027.

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[12] L. Schenato, M. Santagiustina, and C. G. Someda, "Fundamental and Random Birefringence Limitations to Delay in Slow Light Fiber Parametric Amplification", *IEEE Journal of Lightwave Technology*, vol. 26, no. 23, pp. 3721–3726, Dec. 2008, ISSN: 0733-8724. DOI: 10.1109/JLT.2008.2004970.

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[14] C. J. McKinstrie, H. Kogelnik, G. G. Luther, and L. Schenato, "Stokes-space derivations of generalized Schrodinger equations for wave propagation in various fibers", *Optics Express*, vol. 15, no. 17, pp. 10 964–10 983, Aug. 2007.

[15] C. J. McKinstrie, S. Radic, M. G. Raymer, and L. Schenato, "Unimpaired phase-sensitive amplification by vector four-wave mixing near the zero-dispersion frequency", *Optics Express*, vol. 15, no. 5, pp. 2178–2189, Mar. 2007.

[16] A. Galtarossa, M. Guglielmucci, L. Palmieri, A. Pizzinat, L. Schenato, and C. Someda, "Experimental justification of a method for low-PMD measurements", *IEEE Photonics Technology Letters*, vol. 18, no. 11, M. Guglielmucci, Ed., pp. 1228–1230, Jun. 2006, ISSN: 1041-1135. DOI: 10.1109/LPT.2006.875344.

[17] A. Galtarossa, Y. Jung, J. Kim, B. H. Lee, K. Oh, U. C. Paek, L. Palmieri, A. Pizzinat, L. Schenato, and C. G. Someda, "Low polarization mode dispersion measurements in ad hoc drawn spun fibers", *Optical Fiber Technology*, vol. 12, no. 4, pp. 323–327, Oct. 2006. DOI: 10.1016/j.yofte.2005.12.005.

[18] A. Galtarossa, L. Palmieri, A. Pizzinat, and L. Schenato, "Polarization Mode Dispersion Management Using Unidirectionally Spun Fibers", *IEEE Journal of Lightwave Technology*, vol. 24, no. 11, L. Palmieri, Ed., pp. 3976–3981, Nov. 2006, ISSN: 0733-8724. DOI: 10.1109/JLT.2006.883127.

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International Conference Papers

[1] M. Park, L. Schenato, L. Palmieri, S. Lee, A. Galtarossa, and K. Oh, "Dual-Core elliptical hollow optical fiber with linearly Wavelength-Decreasing birefringence", in *ECOC 2010 - 36th European Conference and Exhibition on Optical Communication*, Lingotto Congress and Exhibition Centre, Torino, Italy, 2010.

[2] H. Ferraro, A. Galtarossa, L. Palmieri, M. Santagiustina, and L. Schenato, "Unidirectionally spun fibers for efficient narrow band parametric amplification", in *Proc. Conference on Optical Fiber communication/National Fiber Optic Engineers Conference OFC/NFOEC 2009*, 2009, pp. 1–3.

[3] M. Santagiustina, A. Galtarossa, L. Palmieri, L. Schenato, C. G. Someda, and L. Ursini, "Polarization control in fiber slow and fast light", in *Dasan Conference on Slow Light (INVITED)*, Jeju Island, Korea, Nov. 2009.

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[9] M. Santagiustina, L. Schenato, and C. G. Someda, "Fundamental limit of the achievable time delay in Slow-light NB-OPA", in *Proc. IEEE/LEOS Winter Topical Meeting Series*, Sorrento (IT), Jan. 2008, pp. 71–72. DOI: 10.1109/LEOSWT.2008.4444404.

[10] ——, "Slow Light in Spun Fiber Optical Parametric Amplification", in *Proc. of 2008 Slow and Fast Light (SL) Topical Meeting*, 2008.

[11] L. Schenato, M. Santagiustina, and C. G. Someda, "Narrow Band Optical Parametric Amplification for Slow Light in Randomly Birefringent Fibers", in *Tech. Digest Optical Fiber Conference '08*, 10.1109/OFC.2008.4528058, 2008, pp. 1–3.

[12] E. Bettini, A. Galtarossa, L. Palmieri, M. Santagiustina, L. Schenato, and C. Someda, "Optical parametric amplification for slow light in random birefringence fibers", in *Proc. Photonics in Switching*, 2007, pp. 47–48. DOI: 10.1109/PS.2007.4300737.

[13] A. Galtarossa, D. Grosso, L. Palmieri, and L. Schenato, "Location and temporal characterization of hinges in optical fiber links", in *Proc. 33rd European Conference on Optical Communication (ECOC)*, vol. 4, Berlin (DE), Sep. 2007, pp. 103–104.

[14] A. Galtarossa, M. Guglielmucci, L. Palmieri, and L. Schenato, "Anomalous Polarization Properties of Single-Mode Randomly Birefringent Spun Fibers", in *Tech. Digest 2007 Japan-Italy Bilateral Workshop on Photonics for Communication*, Osaka (JP), Jul. 2007, pp. 65–68.

[15] ——, "Unusual Polarization Properties of Single-Mode Randomly Birefringent Spun Fibers", in *Proc. 9th International Conference on Transparent Optical Networks ICTON '07*, vol. 1, Rome (IT), Jul. 2007, pp. 160–163. DOI: 10.1109/ICTON.2007.4296056.

[16] A. Galtarossa, L Palmieri, and L. Schenato, "The role of birefringence correlation in spun fiber PMD properties", in *Proc. 33rd European Conference on Optical Communication (ECOC)*, vol. 4, Berlin (DE), Sep. 2007, pp. 109–110.

[17] A. Galtarossa, L. Palmieri, A. Pizzinat, and L. Schenato, "PMD management in unidirectionally spun fiber links", in *Proc. 32th European Conference on Optical Communication (ECOC)*, vol. 3, Cannes (FR), Sep. 2006, pp. 177–178.

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National Conference Papers

[1] L. Schenato, L. Palmieri, F. Chiarello, G. Marcato, G. Gruca, T. van de Watering, D. Iannuzzi, A. Pasuto, and A. Galtarossa, "Experimental analysis of fiber optic sensor for detection of precursory acoustic signals in rockfall events", in *Fotonica 2012, 14° Convegno Nazionale delle Tecnologie Fotoniche*, ISBN 9788887237146, Firenze, 2012.

[2] L. Schenato, D. Benedetti, L. Palmieri, and A. Galtarossa, "Experimental analysis of fiber optic sensor for detection of precursory acoustic signals in rockfall events", in *Fotonica '11*, 2011.

[3] A. Galtarossa, M. Guglielmucci, S. K. Fosuhene, A. W. R. Leitch, L. Palmieri, L. Schenato, and L. Ursini, "Misura riflettometrica del ritardo di gruppo differenziale quadratico medio in fibre ottiche a singolo modo", in *Fotonica '10*, 2010.

[4] L. Schenato, A. Galtarossa, L. Palmieri, L. Ursini, M. Park, S. Lee, K. Oh, and M. Guglielmucci, "Caratterizzazione sperimentale di una fibra ellittica a nucleo cavo", in *Fotonica '10*, 2010.

[5] L. Ursini, F. Chiarello, M. Santagiustina, and L. Schenato, "Comunicazioni sicure in spazio libero su portante ottica caotica", in *Fotonica '10*, 2010.

[6] E. De Zotti, L. Palmieri, and L. Schenato, "Riflettometria ottica in guide d'onda affette da dicroismo", in *Proc. Fotonica '09*, Pisa, May 2009.

[7] A. Galtarossa, D. Grosso, L. Palmieri, L. Schenato, R. Cigliutti, M. Giltrelli, S. Santoni, M. Guglielmucci, A. W. R. Leitch, and D. Waswa, "Sviluppo e sperimentazione di un compensatore di dispersione di polarizzazione per sistemi ottici nrz e rz a 40 gbit/s", in *Proc. Fotonica '09*, 2009.

[8] A. Galtarossa, L. Palmieri, M. Santagiustina, L. Schenato, and C. G. Someda, "Four wave mixing degenere in fibre affette da birifrangenza aleatoria e sottoposte a torsione unidirezionale a caldo", in *Proc. Fotonica '09*, 2009.

[9] A. Galtarossa, L. Palmieri, M. Santagiustina, L. Schenato, L. Ursini, and M. Guglielmucci, "Evoluzione della polarizzazione negli amplificatori brillouin e raman in fibre affette da birifrangenza aleatoria", in *Proc. Fotonica '09*, Pisa, May 2009.

[10] A. Galtarossa, D. Grosso, M. Guglielmucci, L. Palmieri, L. Schenato, C. G. Someda, and L. Ursini, "Caratterizzazione quasi-completa della birifrangenza in fibre ottiche singolo modo attraverso tecnica riflettometrica", in *Proc. XVII Riunione Nazionale di Elettromagnetismo - RiNEm*, 2008.

[11] A. Galtarossa, L. Palmieri, L. Schenato, and L. Ursini, "Amplificazione brillouin in fibre ottiche a birifrangenza aleatoria e dotate di spin unidirezionale", in *Proc. XVII Riunione Nazionale di Elettromagnetismo - RiNEm*, 2008.

[12] M. Santagiustina, L. Schenato, and C. G. Someda, "Luce lenta e luce veloce: dai primi esperimenti alle applicazioni nell'Ingegneria dell'Informazione", in *Atti e Memorie dell'Accademia Galileiana di Scienze, Lettere ed Arti già dei Ricovrati e Patavina*, vol. CXX, 2008, pp. 31–46.

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Abstracts

[1] A. Galtarossa, F. Ferri, A Galgaro, *et al.*, “Ultrasonic emissions related to rocks cracking precursors: first results from rock samples tests”, in *Abstract 8th edition of the Italian Forum of Earth Sciences*, vol. Poster Session J5, 2011.

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