Marine Wojcieszak

Born: 04/02/1988
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Looking for a postdoctoral position starting from septembre 2015

Education

2011-present	**PhD in Chemistry and Physics**, University of Pierre & Marie Curie, Paris 6, France
2009-2011	**Master of Chemistry, Specialization Instrumentation for Cultural Heritage**, University of Artois, Lens, France
2006-2009	**Bachelor of Chemistry**, University of Artois, Lens, France

Professional Experience

2011-present	**Graduate Student** – University Pierre & Marie Curie (LADIR-MONARIS), Paris, France Teaching and research Silk, 'pattern' of natural fibrous polymer: a vibrationnal and nano/micromechanical analysis from fibre to composite (La soie, modèle de polymères naturels fibreux : analyse vibrationnelle et nano/micromécanique, de la fibre au composite)
August 2011	**Full-time Assistant** – Royal Institute for Cultural Heritage (KIK-IRPA), Brussels, Belgium Study of ancient and artificially aging silk and wool by FT-IR
May-June 2011	**Laboratory Training** – Univertsity of Lille 3 (LASIR), Villeneuve d'Ascq, France Study of archaeological Roman frescoes by Raman spectroscopy
Jan.-April 2011	**Laboratory Training** – Univertsity of Artois (UCCS), Lens , France Study of medieval paving tiles by Raman microspectroscopy and SEM Study of nanoparticles and liquid crystals by Raman spectroscopy
August 2010	**Full-time Assistant** – IRPA, Brussels, Belgium Continuation of training subject and analysis of collagen by fluorescence spectroscopy
March-June 2010	**Laboratory Training** – IRPA, Bruxelles, Belgium Study of archaeological bones by infrared spectroscopy and X-ray diffraction
July 2007	**Laboratory assistant** – Sotrenord, Courrières, France Analysis of industrial wastes (measurement of pH, salt concentration, melting points, dosages)

Teaching Experience, Student Training, Laboratory Life

- Bachelor training – Synthesis and characterization of silk fibroin films
- Teaching fondamental principles of analytical chemistry
- PhD representative on the laboratory board

Specific Qualifications

- Analysis and characterization: Raman, FT-Raman, FT-IR, fluorescence and UV spectroscopies, SEM, X-ray diffraction, uniaxial tensile testing
- IT skills: Microsoft Office Suite 1995-2013, Photoshop adoby, Origin 5.0 and 6.0, Opus 5.0 to 7.0, Labspec 4 and 5, XRD commander, Omnic, gmail, EndNote v9
- Language Proficiencies: - mother tongue: French
  - others languages: English (advanced level), Spanish (beginner level)

Publications

Tensile Properties of *Nephila madagascariensis* spider silk by M. Wojcieszak, A. Percot, Ph. Colomban, B. Mauchamp (in progress)

Origin of the variability of the mechanical properties of silk fibres: 4. Cristallinity/order variability in silkworm/spider silks by M. Wojcieszak, A. Percot, Ph. Colomban, S. Noinville, B. Mauchamp ; *Journal of Raman spectroscopy* , 2014, **45** (895-902)

Water dependent structural changes of silk from gland to fibre as evidenced by Raman and IR spectroscopies by A. Percot, Ph. Colomban, C. Paris, H-M. Dinh, M. Wojcieszak, B. Mauchamp ; *Vibrational spectroscopy*, 2014 , **73** (79-89)

Communications

2014 **Journée 2014 du Réseau CAI-RN (Compétences Archéométriques Interdisciplinaires - Réseau National), Paris, France**
Poster and flash presentation: Consolidation de fibres textiles par pulvérisation et trempage de protéines de soie
(M. Wojcieszak, A. Fraysse, A. Percot, S. Noinville, A. Marcellan, D. de Reyer, Ph. Colomban)

XXIV. ICORS International Conference on Raman Spectroscopy, Jena, Germany
Oral presentation: Order variations along silkworm/spider silk
(M. Wojcieszak , A. Percot, Ph. Colomban)

Gordon Research Conference & Seminar: Scientific Methods in Cultural Heritage Research, USA
Poster: Consolidation of textile silk by spraying liquid silk proteins
(A. Fraysse, M. Wojcieszak, A. Percot, S. Noinville, D. de Reyer, P. Colomban)

GFSV XX° Journées du Groupe Français de Spectroscopie Vibrationnelle, Paris, France
Oral presentation: Variabilité, ordre et comportement mécanique de soies d'araignée et de ver à soie
(M. Wojcieszak , A. Percot, Ph. Colomban)

2013 **18èmes Journées Nationales sur les Composites, Nantes, France**
Oral presentation + Article: Composites fibre de soie/matrice de soie régénérée
(M. Wojcieszak , A. Percot, M. Tiennot, A. Marcellan, Ph. Colomban)

Journée de l'école doctorale ED388, Paris, France
Oral presentation: Composites fibre de soie décreusée/matrice de soie régénérée (fibroïne)
(M. Wojcieszak, A. Percot, A. Marcellan, S. Noinville, Ph. Colomban)

Journées jeunes chercheurs éco composites et composites bio sourcés, Nevers, France
Oral presentation: Recherches préliminaires sur les composites fibre de soie / matrice de soie régénérée
(M. Wojcieszak, A. Percot, A. Marcellan, S. Noinville, Ph. Colomban)

Communications (continued)

2012 **GFSV XVIII° Journées de spectroscopie vibrationnelle, Bordeaux, France**
Poster: Spectroscopie Raman couplée à la traction uniaxiale : la soie comme modèle de biomatériaux fibreux
(M. Wojcieszak, A. Percot, H-M. Dinh, G. Gouadec, C. Paris, Ph. Colomban, B. Mauchamp)

Journée SMART, Paris, France
Poster: Caractérisation de biomatériaux fibreux
(A. Percot, M. Wojcieszak, G. Gouadec, C. Paris, H-M. Dinh, Ph. Colomban, B. Mauchamp)

2011 **Journée scientifique « Jeunes Chercheurs » co-organised by GdR ChimARC and réseau Archéométrie CAI-RN, Paris, France**
Poster: Master 2 « Instrumentation au service de l'art »
(J-F. Henninot, J-F Blach, M. Valdher, M. Wojcieszak , N. Thoores, S. Beaurepaire, M.Duquesnoy)
Poster: Etude spectroscopique des intéractions pigment-protéine dans les peintures
(S. Dallongeville, M.C. Dhamelincourt , B. Hernandez , S. Turrell, M. Wojcieszak)

References

Dr. Aline Percot: teacher-researcher, UPMC-MONARIS
+33(1)44 27 36 20 / aline.percot@upmc.fr

Dr. Philippe Colomban: CNRS Research Director and Head "Spectroscopy of Nanomaterials Group" of MONARIS laboratory
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