Romain Pinquié, Ph.D.

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WORK EXPERIENCE

11/2016 – 11/2017
Post-doctoral Research Fellow in Model-Based Systems Engineering
Airbus Helicopters and Information Science & Systems Lab UMR CNRS 7296, France
Mission: *Research on the implementation of the simulation-based systems engineering method Property Model Methodology applied to the new Airbus Helicopter X6 program.*

10/2016 – 10/2016
Part-time lecturer in Systems Modelling and Simulation
EPF Montpellier School of Engineeering, France
Mission: *Teaching behavioural modelling and simulation of multi-engineering technical systems with Modelica (SystemModeler) to 3 groups of 30 engineering students during 24H.*

03/2013 – 07/2016
Part-time lecturer in Computer Aided Design
Arts & Métiers ParisTech School of Engineering, France
Mission: *Teaching geometrical modelling, drafting, mechanical assembly, kinematics, and data management with 3D Experience to 2 groups of 20 engineering students during 35H.*

10/2015 – 10/2015
Part-time lecturer in Systems Modelling and Simulation
EPF Montpellier School of Engineering, France
Mission: *Teaching behavioural modelling and simulation of multi-engineering technical systems with Modelica (Dymola) to 2 groups of 30 engineering students during 16H.*

02/2013 – 10/2013
R&D Engineer in Model-Based Systems Engineering
QUARTZ Laboratory, France
Mission: *R&D on the modelling and simulation of multi-engineering technical systems with Dymola and the RFLP Catia Systems framework of the 3D Experience.*

04/2012 – 11/2012
Trainee as Prognostics & Health Management Engineer
PHM Technology, Australia
Mission: *R&D of Prognostics and Heal Management technology for complex system.*

05/2011 – 08/2011
Trainee as Structural Analysis Engineer
ECTA, France
Mission: *Structural analysis of wood framing elements.*

02/2010 – 03/2010
Trainee as Mechanical Designer
ISP System, France
Mission: *Design of an aircraft door motorised screw jack for maintenance operations.*

EDUCATION

2013 – 2016
Ph.D. Product Design, Arts & Métiers ParisTech, France
Information Science & System Laboratory (LSIS) UMR CNRS 7296, France
Thesis title: *A collaborative requirement mining framework*

2011 – 2012
M.Sc. Computational & Software Techniques in Engineering specialising in Computer Aided Engineering, Cranfield, Uk

2009 – 2012
French Engineering *Grandes Écoles* in Computer Aided Engineering, ESTIA Institute of Technology, France

2008 – 2009
Preparatory classes to French Engineering *Grandes Écoles*, Lycée Louis Rascol, France

2006 – 2008
B.Sc. Mechanical Engineering specialising in Aerospace Science , University of Paul Sabatier Toulouse 3, France

Research Publications

Journal Articles

1. Pinquié, R., Véron, P., Segonds, F., & Croué, N. (2016). Requirement mining for model-based product design. *International Journal of Product Lifecycle Management*, *9*(4), 305–332.
2. Pinquié, R., Rivest, L., Segonds, F., & Véron, P. (2015). An illustrated glossary of ambiguous terms used in discrete manufacturing. *International Journal of Product Lifecycle Management*, *8*(2), 142–171.

Conference Proceedings

1. Pinquié, R., Micouin, P., Véron, P., & Segonds, F. (2016). Property Model Methodology: a case study with Modelica. In *Proceedings of the 11th Int. Conf. on Tools and Methods of Competitive Engineering (TMCE 2016)* (pp. 79–91). Aix-en-Provence, France.
2. Pinquié, R., Véron, P., Segonds, F., & Croué, N. (2015a). A collaborative requirement mining framework to support oems. In *Proceedings of the 12th IFIP Int. Conf. on Cooperative Design, Visualisation and Engineering (CDVE 2015)* (pp. 105–114). Mallorca, Spain.
3. Pinquié, R., Véron, P., Segonds, F., & Croué, N. (2015b). Natural language processing of requirements for model-based product design with enovia-catia v6. In *Proceedings of the 12th IFIP Int. Conf. on Product Lifecycle Management (PLM 2015)* (pp. 205–215). Doha, Qatar.

Skills

Languages	French, English, and Spanish.
Systems simulation	Modelica (SystemModeler, Catia Systems, Dymola), MathWorks (Simulink, Stateflow, Simscape, Design Verifier)
Systems modelling	Mega, SysML, Capella, FFBD, SADT, NAF Framework, APTE
Systems eng. standards	ISO 15288, ARP 4754A, EIA 632, NASA, INCOSE Handbook
CAD	Catia V5, 3D Experience
Safety	MADe PHM, FMECA, FTA, RBD
Data science	Weka, Python ScikitLearn and NLTK, Stanford CoreNLP, Neo4J
Scientific computing	Matlab, Mathematica, Python NumPy and Matplotlib
Coding	Java, Python, LaTeX, HTML, CSS, JavaScript
IDE	IntelliJ IDEA, PyCharm, Eclipse

Awards

2016 Nominated for the Pierre Bézier doctoral dissertation award that recognises and encourages superior research and writing by doctoral candidates from Arts & Métiers ParisTech.

Referees

Prof Philippe Véron
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Dr Carol A Armitage
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