

## ROMAIN PINQUIÉ

Date of Birth: 31 January 1988

Nationality: French

LSIS UMR CNRS 7296, Arts & Métiers ParisTech

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## WORK EXPERIENCE

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### 10/2013–10/2016 Ph.D Candidate in Systems Engineering & Data Science

Arts & Métiers ParisTech - Institut Carnot ARTS

Information Science and Systems Laboratory - LSIS UMR CNRS 7296

Industrial partner: Dassault Système's spin-off Keonys

**Proposition:** A collaborative requirement mining framework to enable subcontractors to gain insight and discover opportunities in a massive set of text-based requirements so as to make effective strategic decisions early on.

#### Concurrent activities:

- Research on the implementation of the model-based systems engineering Property Model Methodology with Modelica.
- Active member of the working group that gathers the INCOSE's French chapter AFIS and the PLM Lab association.
- Teaching - Computer Aided Design - 32H. Introduction to solid modelling and mechanical assembly using ENOVIA/CATIA V6 to the first-year engineering postgraduate students at Arts & Métiers ParisTech.
- Teaching - Systems Modelling & Simulation - 16H. Introduction to systems modelling and simulation using Dymola to the final-year engineering postgraduate students at École Polytechnique Féminine.
- Training courses:
  - Big data (Hadoop) & Semantic web (OWL) - UDOS (15H)
  - 3DS Exalead Cloudview V6 - Dassault Systèmes (28H)
  - Processing of massive scientific datasets - LAAS-CNRS (20H)
  - Collaborative engineering & geometric modelling - LSIS UMR CNRS (28H)
  - Cost and financing of research activities - Mines ParisTech (35H)
  - Patents and intellectual property - URFIST Paris (7H)
  - Key principles of management - Mines ParisTech (14H)

### 02/2013–10/2013 R&D Engineer in Systems Engineering

Institut Supérieur de Mécanique de Paris, Paris, France

Laboratoire d'Ingénierie des Systèmes Mécaniques et des MATériaux - LISMMA

### 04/2012–11/2012 Trainee as Prognostics and Health Management Engineer

PHM Technology Pty Ltd, Melbourne, Australia

### 05/2011–09/2011 Trainee as Mechanical Design and Test Engineer

Hamilton Sundstrand's Ratier-Figeac unit, Figeac, France

### 02/2010–04/2010 Trainee as Stress Engineer

Études et Coordination Technique d'Acquittaine, Pau, France

### 04/2008–06/2008 Trainee as Mechanical Designer

ISP System, Tarbes, France

## EDUCATION

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- 2011–2012**    **Cranfield University, Applied Mathematics and Computing Group.** *Cranfield, England*  
MSc Computational & Software Techniques in Engineering, option Computer Aided Engineering
- 2009–2012**    **ESTIA Institute of Technology.** *Biarritz, France*  
Master’s Degree in Computer Aided Engineering
- 2008–2009**    **Louis Rascol College.** *Albi, France*  
Preparatory classes for the competitive entrance exam to French Engineering School
- 2006–2008**    **Paul Sabatier University.** *Toulouse, France*  
Bachelor’s Degree in Mechanical Engineering specialised in Aerospace Sciences

## PUBLICATIONS

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### Requirement Mining for Model-Based Product Design

*International Journal of Product Lifecycle Management, in press*

### Property model methodology: a case study with Modelica

*11th Int. Conf. on Tools and Methods of Competitive Engineering, Aix-en-Provence, France, 9–13 May 2016*

### Natural language processing of requirements for model-based product design with Enovia-Catia V6

*12th IFIP Int. Conf. on Product Lifecycle Management, Doha, Qatar, 19–21 October 2015*

### A collaborative requirement mining framework to support OEMs

*12th Int. Conf. on Cooperative Design, Visualisation and Engineering, Mallorca, Spain, 20–23 September 2015*

### A illustrated glossary of ambiguous PLM terms used in discrete manufacturing

*International Journal of Product Lifecycle Management, 8(2), 2015*

## LANGUAGES

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**English:** Professional working proficiency (*ILR Level 3*)

**Spanish:** Limited working proficiency (*ILR Level 2*)

## SKILLS

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**Systems Engineering:** Catia V6 RFLP, Modelica (SystemModeler, Dymola, Catia V6 DBM, OpenModelica), Simulink, Axiomatic design, PMM, SysML, APTE, FAST, SADT, FFBD.

**Data Science:** Weka, R (tm, TextTools, ggplot2), Python (numpy, matplotlib, scikit-learn), Stanford CoreNLP, Apache Tika, Neo4J, D3.js, WordNet, ConceptNet 5.

**CAX & PLM:** ENOVIA-CATIA V6 & V5 (Part & Assembly Design, Drafting, Wireframe & Surface, Generative Shape Design, Freestyle, Knowledge Advisor, Machining, Generative Structural Analysis), ABAQUS CAE.

**RAMS:** MADe, FMECA, FTA, RBD.

**Programming:** Java, JSF, Eclipse, Maven, JavaScript, CSS, HTML, Bootstrap, PrimeFaces, BootFaces, Jsoup, Jdom.

## REFEREES

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**Pr. Philippe Véron**

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Arts & Métiers ParisTech  
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**Dr Carol A Armitage**

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