

Yves CHEMISKY

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Research Associate in Mechanics & Materials, PhD

Majors: Smart and Composite Materials, FEA Simulations, Micromechanics

Work experience

2009-present	Texas A&M University, Department of Aerospace Engineering Research Associate – Graduate student Teacher Assistant	Texas, USA
	<ul style="list-style-type: none">- Development of Shape Memory Alloy models for aerospace applications- Micromechanics models for functional composites- Graduate student teacher assistant: Micromechanics	
2006-2009 3 Years	Metz University, Teaching Assistant, (90hours / year)	Metz France
	<ul style="list-style-type: none">- Structures simulations, Finite Element Method (four-year university degree)- Strength of materials (three-year university degree)	
2006 6 months	Physics and Mechanics of Materials Lab, Research Assistant	Metz, France.
	<ul style="list-style-type: none">- Development of a SMA/elastomer composite ribbon- Studies of structural interactions impact on the composite behavior	
2005 4 months	ARCELOR Research (Steelmaking), Engineer Assistant	Maizières-les Metz, France
	<ul style="list-style-type: none">- Improvement of steelmaking tundish shape and ladle treatments to limit impurities in steel- Contribution to the design of a ladle treatment controller	
2003 3 months	SOLVI, ARCELOR group (Steel sheets printing), Technician	Florange, France
	<ul style="list-style-type: none">- Maintenance planning sheet definition	

Education

2006-2009	PhD Thesis - Laboratory of Physics and Mechanics of Materials (LPMM) Metz, France	
	<ul style="list-style-type: none">- Development of a design tool for Shape Memory Alloys (SMA) components, using Finite Element Method- Applications in composites materials and structures 1 article (+ 1 submitted and several in progress), 5 international conferences	
2005-2006	Metz University, Master in Mechanics of Material Sciences	Metz, France
	<ul style="list-style-type: none">- Mechanics of Materials, Micromechanics, Smart Materials- Experimental methods for material characterization	
2001 - 2005	Metz University, Bachelor (Maitrise) degree in Mechanics	Metz, France
1999 - 2001	Ecole des Sciences et Techniques de l'Ingénieur de Nancy, France	
	Engineering school	

Skills

Scientific

- **FEA packages** (ABAQUS), implementation of User Material subroutines
- **CAD** (CATIA, AutoCad, Solidworks), **Analytic softwares** (Maple)
- **Numerical methods** for non-linear problems solving
- **Experimental characterization** of materials (mechanical tests, DSC)
- **Mathematical simulation** softwares (Maple, Matlab)
- **Linux, Mac and Windows** user with associated common softwares

Languages

- **French** : native speaker
- **English** : fluent (paper writing, several months of experience in USA)

Interests and social activities

2004-2007	Challenge Handicap&Technology organization (Metz, 2005,2007)	
	<ul style="list-style-type: none">- Inter-Universitary challenge, innovative devices for outdoor activities and mobility for persons with physical disabilities	
2004-2005	University of Metz Student House representative	
	<ul style="list-style-type: none">- Cultural projects and associative support for Metz University students	

Travelled in Europe (15 countries) & USA, climbing, biking