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CONTEXTE

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9 promotional tools

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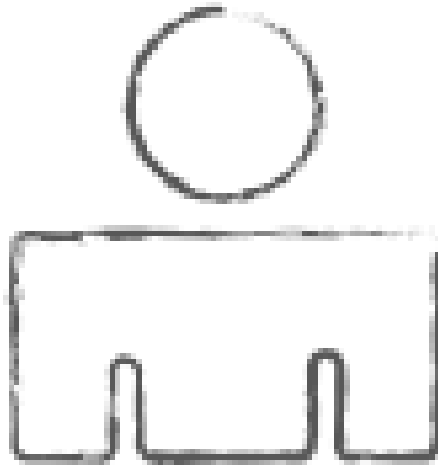
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Implantation: (sélectionner)

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Chloé-Agathe AZENCOTT

Fonction: Enseignant Chercheur

Centre: [CBIO - Centre de Bioinformatique](#)

Implantation: Paris

Email: chloe-agathe.azencott@mines-paristech.fr

Téléphone: 01.40.51.90.42

Bureau: V315



actualité



FORMATION
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agenda

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Soutenances ALEF, en Chine

Le 7 décembre 2017
Restitution des projets de R&D sur les réseaux...

Le 11 décembre 2017
L'écosystème de la publicité

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Région de Paris, France | Études/recherche
Entreprise actuelle MINES ParisTech - Ecole des mines de Paris
Précédent Max Planck Institute for Developmental Biology and Max Planck Institute for Intelligent Systems, UC Irvine, IBM Research
Enseignement University of California, Irvine
Sites web <http://cazencott.info/>

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Chloé-Agathe Azencott a aimé

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Chloé-Agathe Azencott a partagé

**We made it happen: WIMLDS now has a French chapter :-)**
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**Vous avez une formation équivalent M1 (minimum) en machine...**
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**Bientôt sur vos écrans, un projet auquel je suis ravie de...**
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Autres pages consultées

**Mathieu Galtier**
Data, computer and neuro scientist

**Francis Bach**
Research faculty at ENS

**Simona Maggio**
Research Engineer at Rakuten Institute of Technology - PriceMinister

**Alexandre Gramfort**

**Nicolas Vayatis**
Director of CMLA at École Normale Supérieure de Cachan

**Damien Querlioz**
Research Scientist at CNRS

**Merouane Debbah**
Director of the Mathematical and Algorithmic Sciences Lab at HUAWEI TECHNOLOGIES FRANCE

**Cedric Villani**
—

**Isabelle Ryl**
Directeur du centre de Recherche Inria de Paris

**Edouard d'Archimbaud**
Happy Data Scientist | Leading the Data & AI Lab at BNP Paribas - Open positions

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PAPERS



Multi-Task Feature Selection on Multiple Networks via Maximum Flows
by Chloé-agathe Azencott and Mahito Sugiyama
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Efficient network-guided multi-locus association mapping with graph cuts
by Chloé-agathe Azencott, Yoshinobu Kawahara, and Mahito Sugiyama
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As an increasing number of genome-wide association studies reveal the limitations of the attempt ... [more](#)
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Chloé-Agathe Azencott
Institut Curie - UPMC Sorbonne Université de bioinformatique et d'écologie des systèmes
135 357 040

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About

Introduction
Current Institution
Institut Curie
UPMC Sorbonne Université de bioinformatique et d'écologie des systèmes
Paris
Current position
Junior Researcher
Skills and Expertise
Machine Learning | Statistical Modeling | Current Research | Data Mining | Deep Learning
Artificial Neural Networks | Visual Computing | High Throughput Computing

21	1,729	312
Research items	Publics	Citations

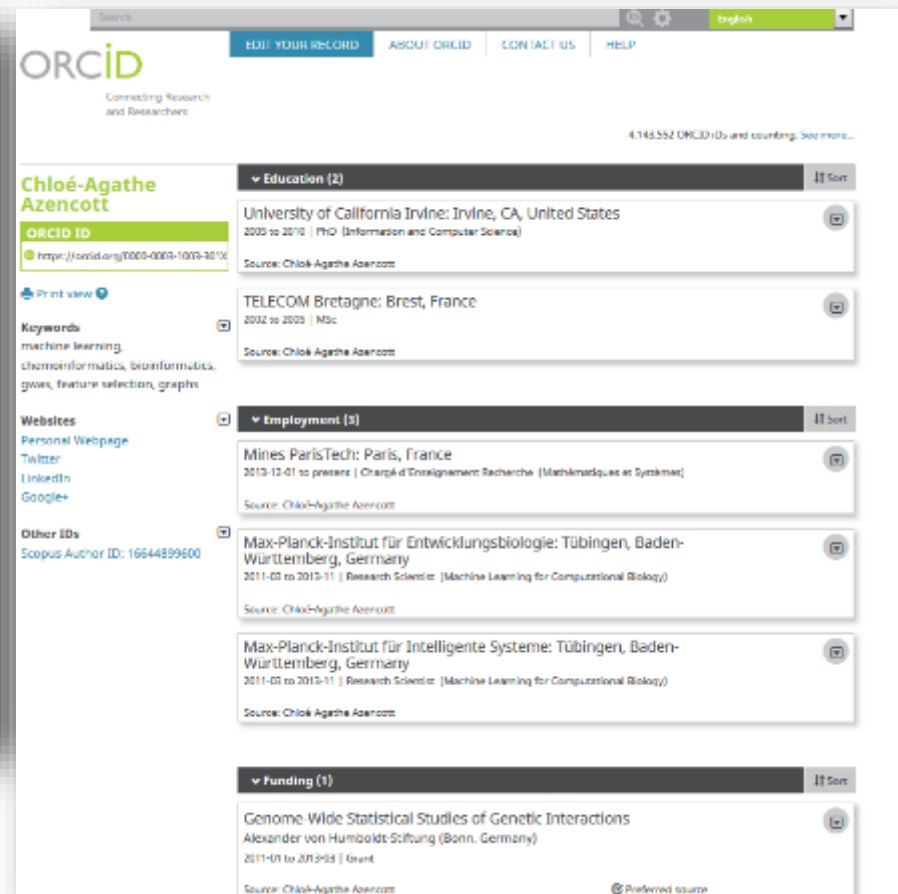
Research Experience
Mar 2011 - Nov 2012
Research (Curie)
UPMC Sorbonne Université de bioinformatique et d'écologie des systèmes
Tübingen, Germany

Current research
Projects (1)
DEAD Challenge on Hierarchical Prediction
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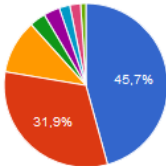
Connexion



Henry Proudhon, CNRS research associate at MINES ParisTech

Nombre de documents94

DISCIPLINES



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MOTS-CLÉS

X-ray tomography Crystal plasticity Aluminium alloys Creep Finite element Fatigue Méthode des éléments finis Plasticité cristalline Finite element analysis Roughness Fretting Architected material Diffraction contrast tomography Cavitation Synchrotron radiation Diffraction cohérente Aluminium Copper niobium composite Crack initiation Size effect

Liste complète

IDENTIFIANTS CHERCHEUR

- IdHAL : henry-proudhon
- IdRef : 094217025
- arXiv : hproudhon
- ORCID : 0000-0002-4075-5577

I focus on problems coupling metallurgy and computational mechanics where the crystallographic microstructure of the material is important. This has several important applications such as the propagation of short cracks, the deformation of polycrystalline materials and damage in contact mechanics. I make a heavy use of synchrotron radiation (in particular via X-ray tomography and diffraction) to probe the material in situ to retrieve three dimensional information about the microstructure, damage and strain evolutions. In the mean time I model the experiment with elasto-plastic constitutive behaviors at the crystal scale using the finite element method.

ARTICLE DANS UNE REVUE

51 documents



T. Gu, J.-R. Medy, F. Volpi, O. Castelnau, Samuel Forest, et al.. Multiscale modeling of the anisotropic electrical conductivity of architected and nanostructured Cu-Nb composite wires and experimental comparison. *Acta Materialia*, Elsevier, 2017, 141, pp.131-141. [⟨10.1016/j.actamat.2017.08.066⟩](#) . [⟨hal-01633968⟩](#)

Henry Proudhon, Jia Li, Wolfgang Ludwig, Arjen Roos, Samuel Forest. Simulation of Short Fatigue Crack Propagation in a 3D Experimental Microstructure . *Advanced Engineering Materials*, Wiley-VCH Verlag, 2017, 19 (8), 1600721, 9 p. [⟨10.1002/adem.201600721⟩](#) . [⟨hal-01599912⟩](#)



Stéphanie Basseville, Georges Cailletaud, T. Ghidossi, Yoann Guilhem, E. Lacoste, et al.. Numerical analysis on the local mechanical fields in polycrystalline 316LN stainless steel under cyclic fatigue loading : Comparison with experimental results. *Materials Science and Engineering: A*, Elsevier, 2017, 696, pp.122-136. [⟨10.1016/j.msea.2017.04.023⟩](#) . [⟨hal-01518940⟩](#)

Nathan Selles, Peter Cloetens, Henry Proudhon, Thilo Morgeneyer, Olga Klinkova, et al.. Voiding mechanisms in deformed polyamide 6 observed at the nanometric scale. *Macromolecules*, American Chemical Society, 2017, 50 (11), pp.4372-4383. [⟨10.1021/acs.macromol.7b00727⟩](#) . [⟨hal-01549074⟩](#)

Andrea Rovinelli, Yoann Guilhem, Henry Proudhon, Ricardo A Lebensohn, Wolfgang Ludwig, et al.. Assessing reliability of fatigue indicator parameters for small crack growth via a probabilistic framework. *Modelling and Simulation in Materials Science and Engineering*, IOP Publishing, 2017, 25 (4), 045010, 29 p. [⟨10.1088/1361-651X/aa6c45⟩](#) . [⟨hal-01540936⟩](#)



Tang Gu, Samuel Forest, O Castelnau, Eveline Hervé-Luanco, F Lecouturier, et al.. Multiscale modeling of the elastic behavior of architected and nanostructured Cu-Nb composite wires. *International Journal of Solids and Structures*, 2017, 121, pp.148-162. [⟨10.1016/j.ijsolstr.2017.05.022⟩](#) . [⟨hal-01638339⟩](#)

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Recherche

Jérôme Denis

Votre assistant
email: jdenis@mines-paristech.fr

Publications



Présentation

Linked in

Les recherches de Jérôme Denis portent sur la sociologie pragmatique informationnelle qui s'occupe de la production et de la circulation de l'information, en particulier les modalités d'interaction, de médiation et de la production. Avec David Ponté, il développe de nouvelles méthodes de recherche, à l'heure où seule l'innovation...



Jérôme Denis

Enseignant Chercheur chez Telecom ParisTech
Région de Paris, France | Enseignement supérieur

Entreprises actuelles: MINES ParisTech, Université de Paris
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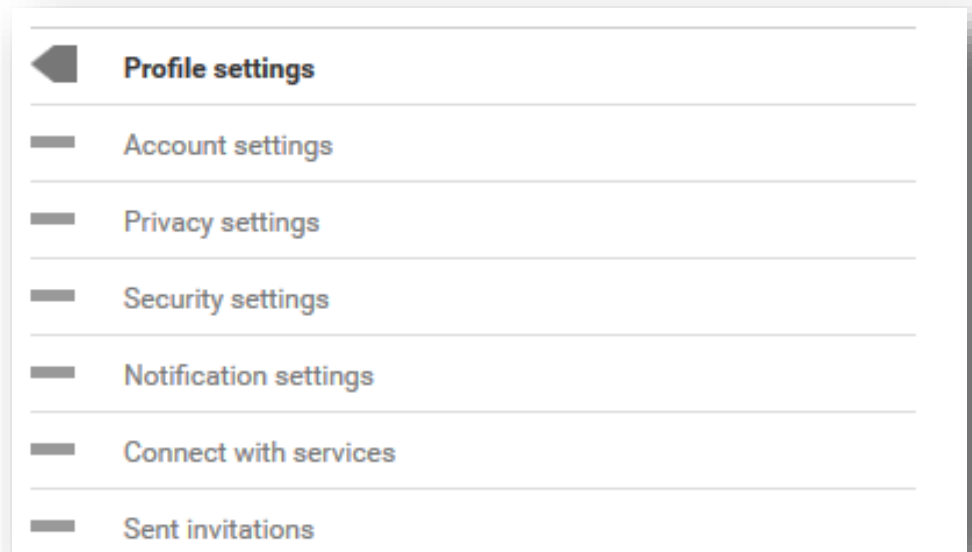
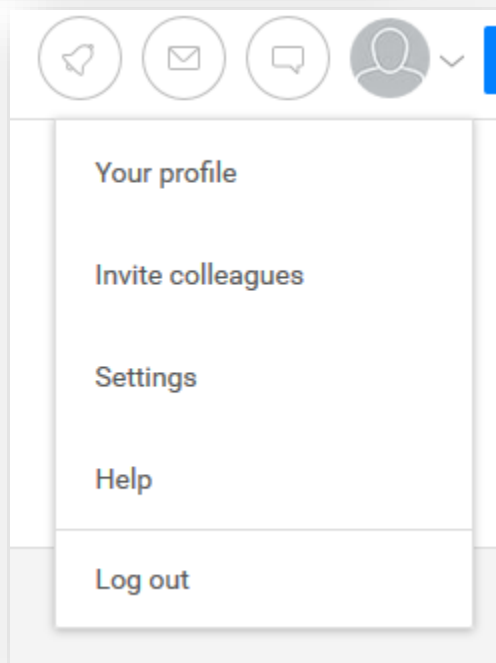
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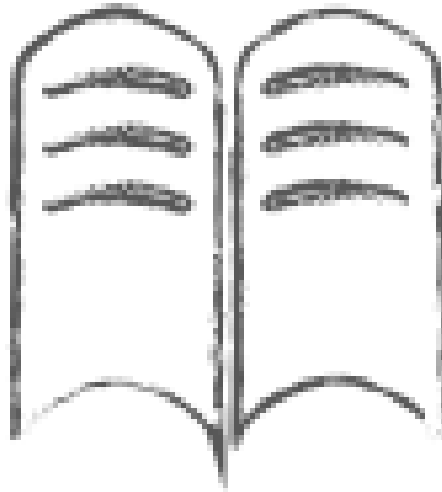
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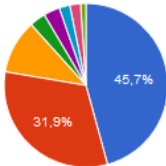
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Henry Proudhon, CNRS research associate at MINES ParisTech

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Henry Proudhon, Jia Li, Wolfgang Ludwig, Arjen Roos, Samuel Forest. Simulation of Short Fatigue Crack Propagation in a 3D Experimental Microstructure . *Advanced Engineering Materials*, Wiley-VCH Verlag, 2017, 19 (8), 1600721, 9 p. [⟨10.1002/adem.201600721⟩](#) . [⟨hal-01599912⟩](#)



Stéphanie Basseville, Georges Cailletaud, T. Ghidossi, Yoann Guilhem, E. Lacoste, et al.. Numerical analysis on the local mechanical fields in polycrystalline 316LN stainless steel under cyclic fatigue loading : Comparison with experimental results. *Materials Science and Engineering: A*, Elsevier, 2017, 696, pp.122-136. [⟨10.1016/j.msea.2017.04.023⟩](#) . [⟨hal-01518940⟩](#)

Nathan Selles, Peter Cloetens, Henry Proudhon, Thilo Morgeneyer, Olga Klinkova, et al.. Voiding mechanisms in deformed polyamide 6 observed at the nanometric scale. *Macromolecules*, American Chemical Society, 2017, 50 (11), pp.4372-4383. [⟨10.1021/acs.macromol.7b00727⟩](#) . [⟨hal-01549074⟩](#)

Andrea Rovinelli, Yoann Guilhem, Henry Proudhon, Ricardo A Lebensohn, Wolfgang Ludwig, et al.. Assessing reliability of fatigue indicator parameters for small crack growth via a probabilistic framework. *Modelling and Simulation in Materials Science and Engineering*, IOP Publishing, 2017, 25 (4), 045010, 29 p. [⟨10.1088/1361-651X/aa6c45⟩](#) . [⟨hal-01540936⟩](#)



Tang Gu, Samuel Forest, O Castelnau, Eveline Hervé-Luanco, F Lecouturier, et al.. Multiscale modeling of the elastic behavior of architected and nanostructured Cu-Nb composite wires. *International Journal of Solids and Structures*, 2017, 121, pp.148-162. [⟨10.1016/j.ijsolstr.2017.05.022⟩](#) . [⟨hal-01638339⟩](#)

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Henry Proudhon
MINES ParisTech | ParisTech - Centre des Matériaux PM FOURT (MAT)
il31.61 - Eng MSc PhD

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Current Institution
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Paris


Current position
CNRS Research Associate

Skills and Expertise
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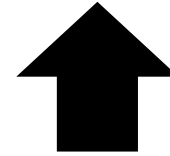
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Henry Proudhon

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CITÉE PAR

ANNÉE

[3-D growth of a short fatigue crack within a polycrystalline microstructure studied using combined diffraction and phase-contrast X-ray tomography](#)

125

2011

M Herbig, A King, P Reischig, H Proudhon, EM Lauridsen, J Marrow, ...
Acta Materialia 59 (2), 590-601

[New opportunities for 3D materials science of polycrystalline materials at the micrometre lengthscale by combined use of X-ray diffraction and X-ray imaging](#)

121

2009

W Ludwig, A King, P Reischig, M Herbig, EM Lauridsen, S Schmidt, ...
Materials Science and Engineering: A 524 (1), 69-76

[A fretting crack initiation prediction taking into account the surface roughness and the crack nucleation process volume](#)

92

2005

H Proudhon, S Fouvry, JY Buffière

International Journal of fatigue 27 (5), 569-579

[Three-dimensional visualisation of fatigue cracks in metals using high resolution synchrotron X-ray micro-tomography](#)

65

2006

JY Buffière, E Ferrie, H Proudhon, W Ludwig

Materials science and technology 22 (9), 1019-1024

[Determination and prediction of the fretting crack initiation: introduction of the \(P, Q, N\) representation and definition of a variable process volume](#)

57

2006

H Proudhon, S Fouvry, GR Yantio

International Journal of Fatigue 28 (7), 707-713

[Ductile crack initiation and propagation assessed via in situ synchrotron radiation-computed laminography](#)

50

2011

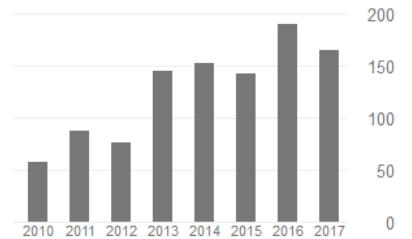
TF Morgeneyer, L Helfen, I Sinclair, H Proudhon, F Xu, T Baumbach

Scripta Materialia 65 (11), 1010-1013

[Rough surface contact analysis by means of the finite element method and of a new reduced model](#)

47

2011



Coauteurs



Forest Samuel
CNRS Mines ParisTech



Siegfried Fouvry
Director of Research at CNRS, L...



Vladislav A. Yastrebov
CNRS Research Scientist, Centr...



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4,143,332 ORCID iDs and counting. [See more.](#)


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Country

France

Keywords

x-ray tomography, diffraction, crystal plasticity, finite elements

Other IDs

Scopus Author ID: 8264772200
ResearcherID: C-3433-2008

▼ Employment (1)

CNRS: Evry, France

2007-10-01 to present | Research Associate (Centre des Matériaux P.M. Four)

Source: Henry Proudhon

▼ Works (48)

3D simulation of short fatigue crack propagation by finite element crystal plasticity and remeshing

International Journal of Fatigue

2015-06 | journal-article

DOI: 10.1016/j.ijfatigue.2015.05.022

Source: CrossRef Metadata Search

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Crystal plasticity finite element simulation of crack growth in single crystals

Computational Materials Science

2014-11 | journal-article

DOI: 10.1016/j.commatsci.2014.03.051

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Finite element analysis of frictionless contact between a sinusoidal asperity and a rigid plane: Elastic and initially plastic deformations

Mechanics of Materials

2014-10 | journal-article

DOI: 10.1016/j.mechmat.2014.06.009

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Proudhon, Henry View profile of all works

Centre du Matériau, L3C104
Aachen 52074-9090

[ORCID](#) [Publons](#) [ResearcherID](#)

Other names: [Proudhon, H](#)

Indexing: [Materials Science](#) [Engineering](#) [Physics and Astronomy](#) [Chemistry](#) [Mathematics](#) [Mechanical Engineering](#) [Earth and Planetary Sciences](#)

Research interests: [Carbon nanotube](#) [Electromechanical](#) [Nanomechanics](#) [Nanotechnology](#) [Nanotubes](#) [Nanotubes](#) [Nanotubes](#)

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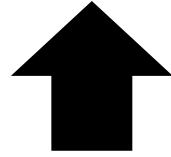
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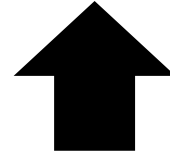
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Recurrent DNA virus domestication leading to different parasite virulence strategies

Apolline Pichon^{1,2}, Annie Bézier³, Serge Urbach⁴, Jean-Marc Aury⁵, Véronique Jouan⁶, Marc Ravallec⁶, Julie Guy⁵, François Cousserans⁶, Julien Thézé³, Jérémy Gauthier⁷, Edith Demetree⁴, Sandra Schmieder⁸, François Wurmser⁹, Vonick Sibut³, Marylène Poirié¹⁰, Dominique Collinet¹⁰, Corinne Da Silva¹¹, Arnaud Couloux¹², Valérie Barbe^{13,3}, Jean-Michel Drezen³, Anne-Nathalie Volkoff⁶ [Détails](#)

- 1 IDHES - Institutions et Dynamiques Historiques de l'Économie et de la Société
- 2 UEVE - Université d'Evry-Val-d'Essonne
- 3 IRBI - Institut de recherche sur la biologie de l'insecte
- 4 IGF - Institut de Génétique Fonctionnelle
- 5 Commissariat à l'Energie Atomique
- 6 DGIMI - Diversité, Génomes & Interactions Microorganismes - Insectes [Montpellier]
- 7 CRESAT - Centre de Recherches sur les Économies, les Sociétés, les Arts et les Techniques
- 8 IPMC - Institut de pharmacologie moléculaire et cellulaire
- 9 UPR9034, Laboratoire Évolution Génomes et Spéciation
- 10 ISA - Institut Sophia Agrobiotech [Sophia Antipolis]
- 11 GENOSCOPE, Centre National de Séquençage
- 12 GENOSCOPE - Genoscope - Centre national de séquençage [Evry]
- 13 UMR 8030 - Génétique métabolique

Abstract : Relics of ancient infections are abundant in eukaryote genomes, but little is known about how they evolve when they confer a functional benefit on their host. We show here, for the first time, that the virus-like particles shown to protect *Venturia canescens* eggs against host immunity are derived from a nudivirus genome incorporated by the parasitic wasp into its own genetic material. Nudivirus hijacking was also at the origin of protective particles from braconid wasps. However, we show here that the viral genes produce "liposomes" that wrap and deliver *V. canescens* virulence proteins, whereas the particles are used as gene transfer agents in braconid wasps. Our findings indicate that virus domestication has occurred repeatedly during parasitic wasp evolution but with different evolutionary trajectories after endogenization, resulting in different virulence molecule delivery strategies.

Type de document : [Article dans une revue](#)

Science Advances, American Association for the Advancement of Science, 2015, 1 (10), pp.e1501150.
(10.1126/sciadv.1501150)

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- HAL Id : hal-01318262, version 1
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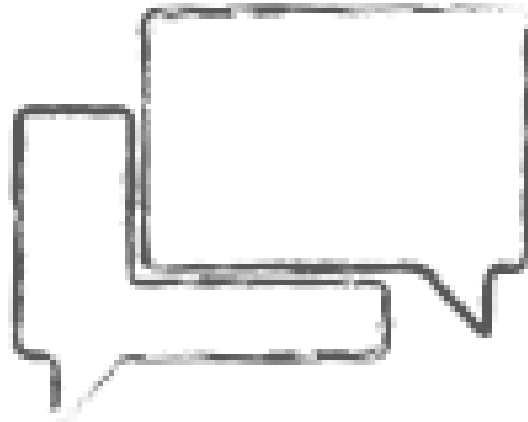
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Cyprien Verseux

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Il est par ailleurs doctorant. Co-dirigé par Lyn (Université de Rome III), il travaille sur la rech production de ressources sur Mars pour les ast

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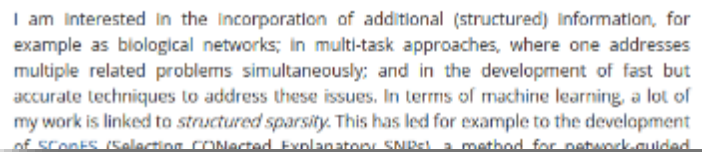
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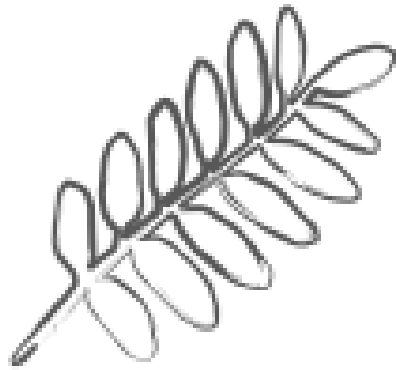
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A hand-drawn 'TO DO LIST' on a chalkboard. The title 'TO DO LIST' is written in a bold, blocky font at the top. Below it, there are five empty checkboxes arranged vertically on the left side. To the right of each checkbox is a horizontal line for writing a task. The entire drawing is done in a light, sketchy style on a dark background.

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CRÉDITS

Pour accompagner cette présentation, se reporter aux documents de l'URFIST de Paris

- *Être visible sur internet : l'identité numérique du chercheur*. [en ligne]. Disponible sur : <http://urfist.enc-sorbonne.fr/ressources/traitement-de-linformation/etre-visible-sur-internet-lidentite-numerique-du-chercheur>,
- dont la synthèse *Construire son identité numérique de chercheur*,
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