



RESEARCH CENTER  
Saclay - Île-de-France

FIELD

## Activity Report 2017

# Section Popularization

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**AMIBIO Team****7.3. Popularization**

May 2017 Participation to the CURIOSITas art & science festival organized by univ. Paris-Saclay on the CNRS campus (Gif-sur-Yvette, France);

March 2017 Outreach presentation by AMIBio on RNA folding and combinatorial design for a class of high school students (Montmorency, France);

## AVIZ Project-Team

### **8.3. Popularization**

- Jean-Daniel Fekete contributed to the DataVis section of the Terra Data exhibition at La Cité des Sciences, April 4th 2017 to January 7th 2018
- Jean-Daniel Fekete contributed to the exhibition on Jacques Bertin at EHESS Paris, November 14th to December 15th 2017
- Jean-Daniel Fekete and Charles Perin organized a workshop on data visualization for the "retrospective Jacques Bertin" at EHESS Paris on November 23-24 2017
- Pierre Dragicevic and Yvonne Jansen: the [Curated List of Physical Visualizations](#) is continuously being updated.
- Pierre Dragicevic and Jean-Daniel Fekete: Demo of [Zooids at Inria's 50th anniversary](#). 7 Nov 2017.
- Jean-Daniel Fekete and Pierre Dragicevic interviewed by France Culture (la méthode scientifique) on [Zooids](#). 21 Dec 2017.
- The [Zooids](#) video has been watched 12 million times, shared 65,000 times and liked 86,000 times [on Facebook](#).

## CEDAR Team

### **9.3. Popularization**

- M. Buron, I. Manolescu, F. Raimundo and T. Merabti animated a booth at the “Fête de la Science 2017” at Inria Saclay, in October 2017.
- I. Manolescu published an article on computational fact-checking titled “La vérité, rien que la vérité” in the Binaire blog of Le Monde (<http://binaire.blog.lemonde.fr/2017/04/05/la-verite-rien-que-la-verite/>)
- I. Manolescu participated to a panel on Data Journalism at the Web2Day, a 3000-strong IT and digital conference in Nantes, in June 2017 (<https://web2day.co/en/speakers/ioana-manolescu/>)
- I. Manolescu gave a talk at the Inria Alumni Jam Session “ Fausses informations, post vérité : allons aux faits ! ”, presenting our current work on data management for data journalism (<http://www.inria-alumni.fr/evenement/session-inria-alumni-fausses-information-post-verite-allons-aux-faits-25-octobre-2017-cnam-paris/>)

**COMETE Project-Team (section vide)**

## **COMMANDS Project-Team**

### **10.3. Popularization**

The collaboration with startup Safety Line was presented at events “Vivatech” (17/06/2017, <https://vivatechnology.com/>) and “Rencontre Inria Industrie” (17/10/2017) in Paris.

## DATASHAPE Project-Team

### **10.3. Popularization**

#### *10.3.1. Inria-Industry Meeting*

Marc Glisse, Miro Kramar and Steve Oudot held a booth for half a day.

Marc Glisse played for a small video which is now on the InriaInnovation YouTube channel <https://youtu.be/lKNjGk-Z6b4>.

**DEDUCTTEAM Project-Team (section vide)**

**DEFI Project-Team (section vide)**

**DISCO Project-Team****10.3. Popularization**

Catherine Bonnet gave a talk in the *Promenades Mathématiques* series of the event *Femmes en maths : une équation lumineuse* for female high school students, IHP, Paris, 19 december 2017. She met several groups of female high school students at the event *Femmes en maths : une équation lumineuse* IHP, Paris, january 2017. She met several groups of high school students at the event *Forum des métiers* in Lycée Hoche, Versailles, February 2017.

## **EX-SITU Project-Team**

### **9.3. Popularization**

- Interviews on France Culture, LCI, TV5 Monde on the standardization of the AZERTY and BEPO keyboards, June-July 2017, Michel Beaudouin-Lafon
- ACM UIST 17 Demonstration, “*CommandBoard: Creating a General-Purpose Command Gesture Input Space for Soft Keyboard*”, Jessalyn Alvina, Carla Griggio, Xiaojun Bi, Wendy Mackay
- Interview à France Culture, 22 Février 2017 @ France Culture *Machines au croisement du design et du numérique*: Nolwenn Maudet
- Demonstration at CEA Digital Days: Data Intelligence, CEA List, “*StickyLines*”, March 2017, Marianela Ciolfi Felice & Wendy Mackay
- Demonstration at CEA Digital Days: Data Intelligence, CEA List, “*Expressive Keyboard*”, March 2017, Jessalyn Alvina & Wendy Mackay
- ACM SCF 2017 Poster Demonstration *Stretchis: Fabricating Highly Stretchable User Interfaces*: Michael Wessely
- Colloque l’Université Paris-Saclay fête les 10 ans de l’ERC, “*ONE - Unified Principles of Interaction*”, 9 June 2017: Michel Beaudouin-Lafon (presentation) and Philip Tchernavskij (poster)
- Presentation of the performance *Radical Choreographic Object*, April 2017 in Theatre de Villeneuve tolosane, September 2017 in Centre de développement Chorégraphique, October 2017 in Centre Bellegarde, November 2017 in Le 104 and December 2017 in Centre Bellegarde: Sarah Fdili Alaoui
- Presentation of the Performance *SKIN*, April 2017 in Scene 44 Pole Media, La friche de la belle, May 2017 in festival Curiositas, November 2017 in Attention Travaux, Culture en Essonne: Sarah Fdili Alaoui
- Scaling up for the Internet of Things, Workshop at Inria Silicon Valley, Berkeley, CA, USA: Wendy Mackay & Theophanis Tsandilas
- Intersections in Music, Movement, and Technology, 17–19 August 2017 *Workshop held at UC Berkeley*: John MacCallum (co-facilitator).
- Relational Listening, 8 July 2017 *Workshop presented at the Conference of Dance and Somatic Practices*: John MacCallum (co-facilitator).
- Relational Listening, 1–30 April 2017 *Workshop*: John MacCallum (co-facilitator).
- Relational Listening, 26 February 2017 *Workshop held at CLOUD/Danslab*: John MacCallum (co-facilitator).

**GALEN Project-Team (section vide)**

**GAMMA3 Project-Team (section vide)**

**GECO Project-Team (section vide)**

## GRACE Project-Team

### **9.3. Popularization**

- A. Couvreur gave the *Conférence inaugurale* of the *Semaine des mathématiques* in the accadémie de Créteil: *Cryptographie, le langage des secrets*.

**ILDA Project-Team****10.3. Popularization**

- *Fête de la science*, Université Paris-Sud: Caroline Appert.
- *Science en Direct*, Cité de la Science: Maria Jesus Lobo Gunther.
- *Qu'est-ce qu'un chercheur en IHM ?*, to high-school students visiting Telecom ParisTech: Bruno Fruchard.

## **INFINE Project-Team**

### **9.3. Popularization**

1. Aline C. Viana gave a scientific talk on “Le smartphone, votre 6e sens ?” and “The research career”, December 2017, for college students visiting Inria Saclay
2. Cédric Adjih, Emmanuel Baccelli, Alexandre Abadie, Raul Fuentes participated to the "Inria-Industry Meetings" on 17 and 18 October 2017, with two demonstrations:
  - RIOT, the friendly OS for the Internet of Things - it has shown the various functionalities from RIOT on hardware of the type sensor/actuator to demo a control loop via the cloud. RIOT was used to generate IoT data locally (via sensors), sending them to the cloud where this data is analyzed. This analysis will result in a physical action (via actuators). We highlighted two use-cases: building automation, and low-cost robotics
  - End-to-end IoT with FIT IoT-LAB - this presented the use of FIT IoT-LAB for experimenting with IoT; in particular the end-to-end Over-the-air updates of RIOT.

## LIFEWARE Project-Team

### 9.3. Popularization

We participated in seminars for general audiences.

- G. Batt, “*La cybergénétique: piloter des cellules par ordinateur*”, 50 ans d’Inria au Siège, Rocquencourt, Nov 16 2017.
- F. Fages, “*Living with algorithms and algorithms of the living*”, Workshop **Shaping Major Transitions in the Digital World**. Interdisciplinary Research Center, CRI, Paris, 28-30 June 2017.
- J. Ruess, “*Automating scientific discovery in single cells*”, Unithé ou café, Inria Saclay - Ile de France, Apr 21 2017

Our publications also raised the attention of specialized and non-specialized media. One can mention

- “Piloter le comportement de cellules biologiques par ordinateur, c’est possible” in Science et Avenir
- “Forscher verbinden und kontrollieren Bakterien mit einem Computer”, in Wiener Zeitung
- “Forscher steuern Bakterien durch Verbindung mit Computer” in der Standard
- “Forscher verbinden und kontrollieren Bakterien mit einem Computer ” and “Virtuelle Realität für Bakterien” in Austria Presse Agentur (APA)
- “Ils parviennent à contrôler des cellules biologiques par ordinateur” in SciencePost
- “Computerized biology, or how to control a population of cells with a computer” and “Virtual reality for bacteria” in Phys.org
- “Computerized biology, or how to control a population of cells with a computer” in EurekAlert.org
- “Scientists Learn to Control Bacteria by Connecting Them to Computers” in Scicasts.com
- “Virtuelle Realität für Bakterien” in Innovations-report.de
- “Virtuelle Realität für Bakterien” in Informationsdienst Wissenschaft

**M3DISIM Project-Team****10.3. Popularization**

J.-M. Allain, Jeudi de la Recherche de l'X: popularisation talk on research with medical application.  
June 2017

J.-M. Allain, 3 articles in popularisation journals (quotidien du médecin, le concours médical, biotech.info) by journalists

D. Chapelle, interview for “Usine Nouvelle”, Dec. 12th

A. Laurin, Inria Saclay inauguration demo and associated news article in “Le Parisien”, Jan. 2017

P. Moireau, Créteil district “Olympiades de Mathématiques” award ceremony, May 2017

R. Chabiniok, Review paper promoting Cardiovascular MRI particularly of congenital heart diseases for Czech and Slovak physicians [17]

A. Laurin, P. Moireau, D. Chapelle, demo at 50 ans de l’Inria, Nov. 7th and 8th

**MEXICO Project-Team (section vide)**

## **PARIETAL Project-Team**

### **10.3. Popularization**

#### ***10.3.1. Gaël Varoquaux***

Présentation "Démocratisation de l'IA", Station F, (Dec 2017).

Présentation sur les logiciels libres de machine learning aux journées annuelles du groupe de travail sur les logiciels libres (Oct 2017)

Présentation sur scikit-learn au "Paris ML meetup" (Dec 2017)

Présentation sur scikit-learn au "Paris Pydata meetup" (Mars 2017)

#### ***10.3.2. Alexandre Gramfort***

Présentation sur "L'intelligence artificielle au service de la société" à l'UNESCO dans le cadre des journées des ingénieurs et scientifiques de France (IESF) (Oct 2017).<sup>0</sup>

Présentation sur l'Intelligence Artificielle au conseil d'administration de l'Institut National du Cancer (INCA) (Nov 2017).

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<sup>0</sup>[http://home.iesf.fr/752\\_p\\_49913/l-intelligence-artificielle.html](http://home.iesf.fr/752_p_49913/l-intelligence-artificielle.html)

**PARSIFAL Project-Team (section vide)**

## PETRUS Project-Team

### 9.3. Popularization

MOOC "Défis technologiques des villes intelligentes participatives", du 6 Nov. 2017 au 31 Dec. 2017. Auteur(s): Nicolas Anciaux, Stéphane Grumbach, Valérie Issarny, Nathalie Mitton, Christine Morin, Animesh Pathak, Hervé Rivano. <http://www.sup-numérique.gouv.fr/cid94187/mooc-villes-intelligentes-defis-technologiques-et-societaux.html>

EIT Digital Professional School course "Technological challenges of participatory Smart Cities". Course for companies and cities. By Nicolas Anciaux, Stéphane Grumbach, Valérie Issarny, Nathalie Mitton, Christine Morin, Animesh Pathak, Hervé Rivano. <https://www.eitdigital.eu/newsroom/news/article/eit-digital-professional-school-launches-a-smart-cities-course-for-companies-and-cities/>

Nicolas Anciaux: interview pour le magazine La Recherche. Numéro de Juin 2017, dossier "Données personnelles: Notre vie privée est-elle en danger?", pp.81-86, par Vincent Glavieux et Denis Delbecq.

Rencontre Inria - Industrie, Les données et leurs applications, Conférence "Sécurité des données", Philippe Pucheral et Eric Léandri (fondateur et PDG de Qwant), 6 Juin 2017. <https://www.inria.fr/centre/paris/innovation/rii-les-donnees-17-18-octobre-2017/programme>

Rencontre Inria - Industrie, Les données et leurs applications, Démonstration du projet Domycile, Nicolas Anciaux, , 6 Juin 2017. <https://www.inria.fr/centre/paris/innovation/rii-les-donnees-17-18-octobre-2017/demos/domycile>

Rencontre Inria - Industrie, Les données et leurs applications, Démonstration du projet Domycile, Paul Tran Van , , 6 Juin 2017.

Round table: Accès aux données et aux compétences, Convention Systematic Paris-Région, Luc Bouganim, June 2017.

Demonstration: PlugDB and the Secure Mobile Laboratory, Turing building inauguration, Luc Bouganim, Iulian Sandu Popa, Riad Ladjel, February 2017.

**POEMS Project-Team (section vide)**

**RANDOPT Team (section vide)**

**SELECT Project-Team (section vide)**

## SPECFUN Project-Team

### 8.3. Popularization

- Assia Mahboubi has written an article for the MathExpress journal, at the occasion of the *salon Culture & Jeux Mathématiques*. See the Maths Language express volume at <http://www.cijm.org/accueil/productions-cijm/90-maths-express>.

**TAU Team****10.3. Popularization**

Philippe Caillou, talk on quality of life at work, AFRAAME association for ethic management, Paris, 28/11/2017

Isabelle Guyon: press release at NIPS conference (5/12/2015); interview l'Usine Nouvelle (12/12/2017).

Michèle Sebag: interview France 2; interview l'Usine Nouvelle; 2 articles The Conversation France.

Paola Tubaro: interview Pourquoi Docteur (online health magazine, 01/01/2017); article in Journal du CNRS (02/02/2017); op-ed Libération (02/02/2017); interview Le Devoir (daily newspaper, Canada, 29/04/2017); interview Les Echos (19/09/2017); interview Le Monde (09/11/2017); 1 article OuiShare magazine (13/07/2017); 1 article The Conversation France (French version 02/11/2017, English version 11/12/2017); round table on Open data at "Science and You" conference, Montréal (05/05/2017); round table "Cuisine and Performance" at Centre Pompidou, Paris (18/11/2017).

## TOCCATA Project-Team

### 10.3. Popularization

S. Boldo, scientific head for Saclay for the MECSI group for networking about computer science popularization inside Inria.

S. Boldo gave a talk at the Inria Saclay about how to popularize programming.

During the “Fête de la science” on October 13th, S. Boldo demonstrated unplugged computer science to teenagers and F. Faïssole run a stand about an introduction to programming with robots. S. Boldo also did this activity to kids from 7 to 17 at the Massy opera on November, 17th.

S. Boldo gave a talk during at a *Girls can code* weekend on August 23rd in Paris.

S. Boldo went to the Arpajon high-school for presenting Women in Science on December 19th.

S. Boldo gave a popularization talk to the administrative staff of Inria at Rocquencourt for the Inria birthday on November 16th.

**TROPICAL Team (section vide)**

## XPOP Project-Team

### 10.3. Popularization

Marc Lavielle developed the learning platform [Statistics in Action](#). The purpose of this online learning platform is to show how statistics (and biostatistics) may be efficiently used in practice using R. It is specifically geared towards teaching statistical modelling concepts and applications for self-study. Indeed, most of the available teaching material tends to be quite "static" while statistical modelling is very much subject to "learning by doing".

Julie Josse participated in the jury of the "Speed data scientist" competition organized by Animath and the Société Générale. The students worked on anomaly detection: they have to identify the days of malfunctioning of the web application. They had to figure out how to anticipate breakdowns.

Julie Josse presented "How to manage missing data in R" at the meetup Rladies Paris. This meeting was associated with the Rforwards initiative, which aims to develop women's participation in the R community.

Marc Lavielle participated to the *Jeudis de la recherche de l'X* on June 29th dedicated to "Health challenge: tools for tomorrow's medicine".