

Curriculum Vitae: Julie Josse

Nationality: French. Date of birth: 10th November 1983. One child born 2021.

Position: Senior Researcher Inria, Montpellier, Sept. 2020 - .

Head of PreMeDICAL Inria-Inserm team: precision medicine by data integration and causal learning.

E-mail: julie.josse@inria.fr - Web: <http://juliejosse.com> - **Detailed CV.**

Education - Previous positions

- Sept. 2016 - Aug. 2020. Professor of Statistics at **École Polytechnique** (Institut Polytechnique de Paris, CMAP). Head of the Master **Data-Sciences for Business** with HEC business school.
- Apr. 2019 - Sept. 2020. Visiting researcher (2 days a week). **Google Brain** IA, Paris.
- 2013 - 2018. Visiting researcher (18 months) **Stanford University**.
- 2016. **Habilitation à diriger des recherches mathématiques, Paris-Sud Univ. Orsay**
- 2010. PhD, **Agrocampus**, Rennes. **Award, best PhD** by French Statistical Society.

Graduate and post-graduate supervision

Students: 15 PhD students including CIFRE with **EDF, Sanofi**, etc., **9 post-docs** and many masters. 2 received the **L'oreal Unesco Prize** and 1 a **Google-PhD** grant. Their current positions: Professors at Telecom Paris & CNAM; Researchers at Okwin, Inria, CNRS; Direction de la sécurité sociale, etc. I have created the **missing data & causality** research group at Inria.

Selected grants

- Programme et Équipements Prioritaires de Recherche (PEPR) (2023-2027), *AI based Methods for Advanced Clinical Trials*, National Research Agency (ANR). Lead one WP (1.5 Million €).
- Chaire **Muse** (ANR) (2021), *Optimal policy of treatment with causal inference*. (300K€).
- **Capgemini Invent** support (2019 -), Mécénat de compétences, *Traumatrix project*.
- **DataIA institute grant** (co-PI) (2018), *Missing data in the big data era*. (250K€).
- **Marie-Curie European grant** (2013) (**AgreenSkills**) for mobility research (Stanford).

Selected editorial boards and program committees (PC)

Associate editor: *Foundations & Trends in Machine Learning* (2024-), *Journal of Computational & Graphical Stat.* (2017-2020), *Journal of Statistical Software* (2010-2017). **PC:** *International Conference on Data Science* (2022-). *Mathematical Methods of Statistics*, *Neurips*, *ICML*, etc.

Community - Outreach

- Founding member of **Rforwards** to increase the participation of minorities in STEM.
- More than 100 talks & 30 keynotes: Celebrating causal inference in medicine & public health, 2022, Ghent Univ. (before the Rousseeuw prize, "Nobel prize" in Statistic.); Optimization, Statistics, & Theoretical Machine Learning, IAS. Princeton; International society for clinical biostatistic, etc. *Statistics seminar:* ETH Zurich, EPFL, Sharif Univ., Cambridge, Cornell, Stanford, Washington Univ., etc. *In companies:* Adobe Research, Tesla, Criteo, Google Brain, L'Oréal.
- Books: 2012-2018. **R pour les statistiques et la data-science > 15000 books sold.**
- Selected interviews: 2022, **Femmes de Tech** Académie des technologies. 2019, Authority magazine, **Women Leading The AI Industry**.

Selected medical projects

- From 2019, I co-lead a **consortium** with EHESP, Ecole Polytechnique, CNRS, Inria, Capgemini Invent and **Traumabase**. Following a **PREPS** grant, we'll launch in 2024 a clinical trial to assess a machine learning-powered smartphone app in ambulances, predicting trauma patient triage.
- During the early Covid crisis, I coordinated of a consortium of computer scientists, statisticians, and clinicians to create a mobile application **ICUBAM** (ICU Bed Availability Monitor) to visualize in real time Covid+ bed availabilities. It was used by 130 ICU wards in 40 French départements.

Software

- Open source libraries: **FactoMineR** (**4 500 download/day; > 5 million in total**), **missMDA**, **task-views missing, causal, R-miss-tastic** platform to provide ressources to users, teachers, etc.
- Elected Member of the **R foundation**, software for statistical computing, data-sciences.