

## **Florian de Vuyst**



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Applied Mathematics to Systems Lab  
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Professor in Computational Science and Numerical Methods

Master in 1990, Université Pierre et Marie Curie (Paris)  
PhD in 1994, ONERA and Université Pierre et Marie Curie, LJLL (Paris)  
Assistant professor in 1996, université Cergy-Pontoise  
Professor, permanent position in Ecole Centrale since 2002

### **Affiliations in 2008**

- Ecole Centrale Paris
- Fellow of CMLA Ecole Normale Supérieure de Cachan
- Foreign Fellow of Energy Conversion Research Center, Doshisha University, Kyoto

### **Fields of Interest**

- Reduced-order modelling
- Parameterized PDEs
- Multidisciplinary analysis
- Model-data fusion
- Parallel-in-time algorithms
- Computational methods for conceptual and preliminary-stage design
- Decision-based visualization in collaborative environment
- Uncertainty propagation (nonintrusive approaches)
- Real-time simulation and visualization
- Feature extraction from numerical results
- Stochastic biochemistry modelling and simulation
- Numerical methods dedicated to GPGPU

### **Applications of interest**

- Transportation, vehicle traffic flow
- Innovating energy conversion device design (supercritical fluids)
- Aircraft design
- Industrial processes involving multiphase flows
- Complex system modeling