

# Maria Podkopaeva

## CURRICULUM VITAE

Research project / program management, grant proposals, scientific reporting,  
event organizing

### PERSONAL

Birth date: March 1, 1985  
Birth place: Leningrad, USSR  
Nationality: Russian  
Marital status: married, 1 child

### CONTACT

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<https://www.ihes.fr/~mariap/>

### LANGUAGES

Russian: native  
English: fluent  
French: fluent

### COMPUTER SKILLS

#### Web development

HTML, CSS, RSS, essentials of  
javascript, jQuery, MySQL, PHP

#### Graphic design

Adobe Indesign, Illustrator,  
Photoshop

#### More

MS Office, LaTeX

### WORK EXPERIENCE

#### IN ADMINISTRATION

**Institut des Hautes Etudes Scientifiques** 2020 - now  
Paris, France  
**Project Manager for Carmin.tv** - launching an audiovisual platform  
for mathematics and its interactions, joint project of CIRM, CIMPA,  
IHES and IHP

**NCCR SwissMAP** 2014 - 2018  
Swiss National Centre of Competence in Research  
network between Swiss universities and CERN, budget ~4.5 mil. CHF/year  
**Science Officer**

- leading the management team
- budget planning and management
- reporting to the Swiss National Science Foundation
- writing grant proposals (initial proposal and grant extension)
- management of scientific activities: organizing conferences,  
interacting with the NCCR network, etc
- strategic management of the non-scientific activities:  
communication, educational outreach, equal opportunities

**Chebyshev Lab** 2012 - 2014  
Mathematics dept., St. Petersburg State University, Russia  
**Scientific Administrator**

- writing grant proposals
- reporting
- communication

#### IN RESEARCH

**Mathematics dept., University of Geneva** 2014 - 2018  
Senior research associate (collaboratrice scientifique II)

**Chebyshev Lab, St. Petersburg University** 2012 - 2016  
Researcher (part-time from 2014)

**Mathematics dept., University of Geneva** 2007 - 2012  
Assistant

## EDUCATION

### 2007-12

graduate student at the Mathematics department, University of Geneva; PhD in August 2017 under the direction of Prof. Anton Alekseev

### 2006-07

masters student, Master Class "Symplectic Geometry and beyond" at the Utrecht University

### 2002-06

bachelors student at the Physics department, St.Petersburg State University

## TRAINING

### 2021 / 05-07

Google Project Management: by Google (Coursera Specialization). Certificate earned on July 15, 2021

### 2019 / 11

Udemy online course "The complete web developer course", 30hrs, by Rob Percival.

### 2019 / 10-12

Udemy online courses on essential and advanced Adobe InDesign and Adobe Illustrator, 30hrs, by Daniel W. Scott, Adobe certified instructor.

### 2019 / 10

Coursera online courses "Business Writing", "Graphic Design" and "Successful Presentation" (within Effective Communication specialization) by University of Colorado Boulder.

## CONFERENCE ORGANIZATION

2010 - 2022 "Winter Schools in Mathematical Physics", Les Diablerets, Switzerland (except 2012), Les Houches, France (2012)

2017 / 08 "Lie groups in mathematics and physics", Les Diablerets, Switzerland

2017 / 06 "Women in Geometry and Topology", Zurich, Switzerland

2016 - 2017 Workshops "Integrable random systems, representation theory and geometry of Lie groups", Les Diablerets, Switzerland

2016 / 06-07 "Poisson 2016", Geneva and Zurich, Switzerland

2010 / 10 "Higher Structures in mathematics and physics", Vienna, Austria

2009 / 03 Workshop "Mathematical Physics: from XX to XXI century", Geneva, Switzerland

## TEACHING EXPERIENCE

2011 Assistant, Algebra I (1<sup>st</sup> year)

2011 Assistant, Analysis III (functional analysis) (3<sup>rd</sup> year)

2010 Assistant, Programming Lab (MATLAB) (1<sup>st</sup> year)

2009 Assistant, Lie algebras (3<sup>rd</sup> and 4<sup>th</sup> years)

2009 Assistant, Analysis III (measure theory) (3<sup>rd</sup> year)

2007, 08, 11 Assistant, Analysis I (1<sup>st</sup> year)

2007, 08, 09 Assistant, Real analysis (2<sup>nd</sup> year)

## PUBLICATIONS

### NON RESEARCH

1. "Supporting Young Researcher Families in Switzerland", Young Mathematicians Column, EMS Newsletter No. 108, June 2018.

### RESEARCH

1. A. Alekseev, M. Podkopaeva, A. Szenes. A symplectic proof of the Horn inequalities. *Advances in Mathematics* 318 (2017), 711-736
2. A. Alekseev, M. Podkopaeva, A. Szenes. The Horn problem and planar networks. *Advances in Mathematics* 318 (2017), 678-710
3. A. Alekseev, M. Podkopaeva, P. Severa. On rational Drinfeld associators. 2010, *Selecta Math. (N.S.)*, Vol. 17, No. 1, 47-65
4. M. Podkopaeva. On the Jacobson element and generators of the Lie algebra  $\mathfrak{grt}$  in nonzero characteristic. 2008, *J. Lie Theory* 21 (2011), No. 1, 071-078