

**Diana Marek**

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01.05.1982  
French-Argentinean  
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Single



As a Ph.D. scientist passionate about science and technology, I have been able to develop projects and relationships through working with scientists and clinicians from different expertise. With strong communication skills and rich experiences, I actively communicate our research and I strongly believe in the importance of informing the media and the broader community.

## SUMMARY OF SKILLS

### **Project management and communication**

- Strong experience in developing and conducting scientific projects, in ensuring project advancement and completion
- Strong experience in coordinating international collaborations
- Ability to communicate and present results in meetings, talks and articles, and to meet expected deadlines, strong interpersonal skills in international environments
- Ability to supervise students
- Ability to communicate science to non-scientific audiences (scientific mediation) and to “translate” science between different scientific audiences in French and English

### **Languages**

- Bilingual French – Spanish
- Fluent in English

### **Scientific**

- Pharmacogenetics and computational genomics
- Statistical genetics in human health and disease

### **Technical**

- Experience in promoting relations and communication with the use of web tools
- Update and maintenance of websites (Jahia, Wiki)
- Ability to work on Windows, Mac and Linux operating systems and common office softwares
- Proficiency in programming (Matlab, R)
- Expertise in genomic statistical data analysis, data-mining and machine learning

## EDUCATION

**10/2005-09/2010**

**Ph.D. in Computational Biology**, Medical Genetics Department,  
University of Lausanne, Switzerland

**09/2003-06/2005**

**M.Sc. in Bioinformatics and Biostatistics**, University of Orsay (Paris XI),  
France

**09/2000-06/2003**

**B.Sc. in Biology, Bioinformatics and Biostatistics**, University of Orsay  
(Paris XI), France

## PROFESSIONAL EXPERIENCE

**10/2010- Present**

**Swiss Institute of Bioinformatics and Medical Genetics Department**  
University of Lausanne, Switzerland

**Biostatistics Research fellow**

**Principal Investigator: Pr. Sven Bergmann**

- Execution of Genome-Wide Associations Studies on human cytokine levels in collaboration with the CHARGE consortium Inflammatory Working Group
- Management, collaboration and statistical analysis of a clinical project consisting on the study of cytokines levels in FMR1 premutation carriers
- Data presentation and delivery to life scientists

**10/2005- 09/2010**

**Medical Genetics Department**

University of Lausanne, Switzerland

**Ph.D. student in Computational Biology**

**Principal Investigators: Pr. Sven Bergmann and Pr. Jacques S. Beckmann**

- Development and execution of a research project consisting of the identification of statistical interactions between genetic variations and environmental factors, within the Swiss HIV Cohort Study
- Genome-Wide Associations Studies projects on various human biological and anthropometric traits, through collaborative work with various world-wide large consortia (GIANT, MAGIC)
- Genotype calling and quality control of a EU-funded collaborative Hypergenes project, with the NCCR Genomics Platform (University of Geneva)
- Data presentation and delivery to life scientists

**03/2005- 09/2005**

**Genomics Science and Bioinformatics Department**

Sanofi-Aventis, Vitry-sur-Seine, France

**Master of Science student**

**Principal Investigators: Dr. Arne Müller and Dr. David Heard**

- Development and execution of a research project aiming at developing computational prediction of siRNA efficacy
- Implementation of machine learning and statistical methods

**07/2003- 02/2005**

**Institut de Génétique et Microbiologie , Laboratoire de Recherche en Informatique**

University of Orsay (Paris XI), France

**Bachelor and Master of Science student**

**Principal Investigators: Pr. Alain Denise and Dr. Michel Termier**

- Research and development of weighted genetic substitution matrices based on the genetic code, for sequences alignments purpose
- Implementation of probabilistic automatons for genomic sequences modeling

**05/2002-07/2002**

**Institut National de la Santé Et de la Recherche Médicale (NSERM)**

U131 research laboratory, Institut Paris-Sud Cytokines, Clamart, France

**Bachelor of Science student**

**Principal Investigator: Dr. Andreas Tsapis**

- Implementation of molecular/cell biology and genetic techniques for the study of the P12 protein encoded by the natural antisense RNA of BCMA

## COACHING EXPERIENCE AND SCIENTIFIC COMMUNICATION

**2007-2012**

- Conception, organization and presentation work at the large public open doors "Journées de la recherche en génétique" (Gene Days); and article contribution to the Gene Days review

**2012**

- Visit of schools to encourage exchanges between life sciences and the young public
- Active participation at the University of Lausanne open doors (Les Mystères de l'UNIL)
- Semi-finalist at the Swiss FameLab contest, at the CERN

**2011-2012**

- Supervision of bachelor and master students in biology, and management of students research project (“*solving biological problems that require maths*” course)

**2007-2008**

- Supervision of students in biology during practical computer sessions

**2005-2012**

- Organization of meetings to report progress of projects and make decisions to reach goals
- Seminar given as invited speaker and posters presentation in international conferences

**LINGUISTIC SKILLS**

<b>French</b>	Mother tongue
<b>Spanish</b>	Mother tongue
<b>English</b>	Fluent

**ADDITIONAL INFORMATION**

- Member of the International Society of Computational Biology (ISCB) since 2008
- President of the “AMERICA” association from 2003 to 2008 with the aim of spreading the Spanish language and South American culture
- Math, Biology, English, Spanish teaching and homework help to school age children from 2000 to 2009
- Organization of social activities and events
  
- Volleyball team member for 16 years
- PADI open water certificate
- Indoor and outdoor climbing
  
- B driving license
- First Aid certificate

**PUBLICATIONS**

- Available upon request