

Maxime Garcia

PhD in Bioinformatics

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https://maxulysse.github.io/



Automatization, analysis, reproducibility and visualization

Experience

- 2016-2019 Bioinformatician, Barntumörbanken / Karolinska Institutet** Stockholm, Sweden
Development of a WGS Germline/Somatic analysis workflow in collaboration between SciLifeLab NGI & NBIS;
<https://github.com/SciLifeLab/Sarek>
Whole Genome Sequencing analysis.
- 2013-2014 Research Associate, Cancer Science Institute of Singapore (CSI)** Singapore, Singapore
RNAseq analysis; Genome Browser Development.
- 2009-2013 PhD candidate, Centre de Recherche en Cancérologie de Marseille (CRCM)** Marseille, France
Development of an Interactome-Transcriptome analysis pipeline; Intern management.

Education

- 2013 PhD, Bioinformatics and Genomics, Aix-Marseille Université** Marseille, France
- 2007-2009 Master's Degree, Bioinformatics and Genomics, Université Aix-Marseille II** Marseille, France
- 2007 Erasmus Semester, School of Biological Sciences, University of East Anglia** Norwich, UK
- 2003-2007 Bachelor's Degree, Biology and Biochemistry, Université Aix-Marseille II** Marseille, France









Publications

- Tong Liu et al. "Glycosylation Controls Sodium-Calcium Exchanger 3 Sub-Cellular Localization During Cell Cycle". In: *European Journal of Cell Biology* 97.3 (2018), pp. 190-203. DOI: 10.1016/j.ejcb.2018.02.004.
- Thomas Bonacci et al. "Identification of New Mechanisms of Cellular Response to Chemotherapy by Tracking Changes in Post-Translational Modifications by Ubiquitin and Ubiquitin-Like Proteins". In: *Journal of Proteome Research* 13.5 (2014), pp. 2478-2494. DOI: 10.1021/pr401258d.
- Maxime Garcia et al. "Detection of Driver Protein Complexes in Breast Cancer Metastasis by Large-Scale Transcriptome-Interactome Integration". In: *Gene Function Analysis*. 2014, pp. 67-85. DOI: 10.1007/978-1-62703-721-1_5.
- Maxime Garcia et al. "CNV-Interactome-Transcriptome Integration to detect driver genes in cancerology". In: *Microarray Image and Data Analysis: Theory and Practice*. 2013, pp. 331-338. ISBN: 978-1-46658-682-6.
- Maxime Garcia et al. "Interactome-transcriptome integration for predicting distant metastasis in breast cancer". In: *Bioinformatics* 28.5 (2012), pp. 672-678. DOI: 10.1093/bioinformatics/bts025.
- Maxime Garcia et al. "Linking Interactome to Disease : A Network-Based Analysis of Metastatic Relapse in Breast Cancer". In: *Handbook of Research on Computational and Systems Biology: Interdisciplinary Applications*. 2011, pp. 406-427. DOI: 10.4018/978-1-60960-491-2.ch019.



















Skills

| | | | |
|------------|---|------------|----------------------------|
| Scripting | Groovy, Bash, Python, Perl, Java, R | Pipeline | Nextflow |
| Containers | Singularity, Docker, Bioconda | Management | Github, Trello, Slack |
| Web | Jekyll, Wordpress | | + HTML5, CSS3, SASS, JS |
| Others | Inkscape, L ^A T _E X, Beamer, Markdown | | + Linux, Clusters, Git, CI |

Presentations

-  2018 19ème Journées Ouvertes en Biologie Informatique et Mathématiques (JOBIM)  Marseille, France
-  2018 SPHN Workflow Interoperability Workshop  Basel, Switzerland
-  2011 Mathematical and Statistical Aspects of Molecular Biology XXI  Vienna, Austria
-  2010 Cancer Bioinformatics Workshop  Cambridge, UK







Selected Posters

-  2018 Keystone Symposia Precision Medicine in Cancer  Stockholm, Sweden
-  2018 Frontiers in Cancer Research and Therapy 2018  Stockholm, Sweden
-  2017 European Human Genetics Conference (ESHG)  Copenhagen, Denmark
-  2016 The XVth KI Cancer Retreat  Djurö, Sweden
-  2013 5th Frontiers in Cancer Science (FCS)  Singapore, Singapore
-  2012 11th European Conference on Computational Biology (ECCB)  Basel, Switzerland
-  2012 13ème Journées Ouvertes en Biologie Informatique et Mathématiques (JOBIM)  Rennes, France
-  2012 6ème Colloque du Cancéropôle PACA  Marseille, France
-  2011 12ème Journées Ouvertes en Biologie Informatique et Mathématiques (JOBIM)  Paris, France







Fellowships

-  2009 PhD fellowship from INSERM/Région PACA

Associations

-  from 2012 Contributor to  <http://bioinfo-fr.net/> (Collaborative French-speaking bioinformatics blog)
-  2012-2014 Vice-president of JeBiF - RSG-France (Association of French Young Bioinformaticians)
-  2010-2011 President of Hippo'Thèse (Association of young researchers in Biology at Aix-Marseille University)
-  2010-2011 Vice-president & Webmaster of BIOTechno Network
(French Network of Associations organizing forums about careers in Biotechnology)
-  2009-2010 Webmaster of Hippo'Thèse

Organization and Events

-  2015 Journées nationales de la CFD (Member of organization committee and Webmaster)
-  2012 Doctoriales en Provence (Member of organization committee)
-  2011 Marché de la Chimie - Fête de la Science (Conception and Animation of a stand)
-  2011 7th BIOTechno forum in Marseille (Head of organization committee)
-  2009-2012 Annual meeting of doctoral school in Biology and Health Sciences from Aix-Marseille University
(Member of organization committee)
-  2007-2011 Plan de Cuques French Comics Festival (Logistic support)

Languages

French Native

English Fluent

Swedish Notions

Interests

Yoga, Running, Cinema, Poker, Gardening, Ice-Skating, Science-Fiction, Popular science