

Maxime Garcia

PhD in Bioinformatics

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Automatization, analysis, reproducibility and visualization

Experience

- From 2016 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
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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
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Interests

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