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## Education

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- 2012 – now** [MCGILL UNIVERSITY](#), Montreal, Canada.  
**PhD in the Human Genetics Department** in [Guillaume Bourque's Lab](#).
- 2010 – 2011** [UNIVERSITAT POLITÈCNICA DE CATALUNYA](#), Barcelona, Spain.  
**Master in Statistic and Operations Research** as an exchange student in the Faculty of Mathematics and Statistics.
- 2008 – 2010** [ENSIMAG](#), Grenoble, France.  
**Computer Science and Mathematics** course with specialization in **Bioinformatics**.
- 2006 – 2008** [LYCÉE MICHEL MONTAIGNE](#), Bordeaux, France.  
Preparatory classes for entrance to the Grandes Écoles. Mathematics and Physics.

## Professional Experiences and Projects

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- 2012 – now** [BOURQUE LAB](#), [McGill Genome Centre](#), Montreal, Canada.  
PhD project. Implementation of a [CNV detection method](#) for whole-genome sequencing that can deal with repeat-rich regions. Application to large cohorts of normal and disease genomes.
- 2011 – 2012** [CENTER FOR GENOMIC REGULATION\(CRG\)](#), Barcelona, Spain.  
(1 year) Graduation project in [Roderic Guigó's group](#). Comparison of splicing activity and [detection of splicing QTLs](#) from RNA-Seq experiments. Participation in the [Geuvadis](#) and [GTEx](#) projects.
- 2011** [UNIVERSITAT POLITÈCNICA DE CATALUNYA](#), Barcelona, Spain.  
(3 months) Study of the regularization of the generalized canonical correlation analysis.
- 2010** [NEOMADES](#)(Mobile software development), Bidart, France.  
(3 months) Implementation of a Java module of their principal product.
- 2010** [ENSIMAG](#), Grenoble, France.  
(1 months) Breast cancer modelization and Bayesian estimation of the overdiagnosis rate. Collaboration with La Tronche's hospital (Grenoble).

## Scholarships and Awards

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- 2017** Student Exchange Support Program. JASSO, Japan.
- 2017** Graduate Mobility Award. Graduate and Postdoctoral Studies, McGill University.
- 2017** Oral Presentation, Honorable Mention. Human Genetics Dept's Research Day, McGill University.
- 2015 & 2017** Excellence award. Human Genetics Dept, McGill University.
- 2013-2016** Graduate Research Enhancement and Travel Award funding attendance to five international conferences. Human Genetics Dept, McGill University.
- 2014** Best oral presentation. Human Genetics Dept's Research Day, McGill University.

## Publications

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- 2017** **J Monlong**, SL Girard, C Meloche, M Cadieux-dion, DM Andrade, RG Lafreniere, M Gravel, D Spiegelman, C Boelman, F Hamdan, JL Michaud, G Rouleau, BA Minassian, G Bourque, and P Cossette. Genome-wide characterization of copy number variants in epilepsy patients. *Under review at Genome Research*.

- 2017 M Arseneault\*, **J Monlong\***, and et al. Loss of chromosome Y leads to down regulation of KDM5D and KDM6C epigenetic modifiers in clear cell renal cell carcinoma. *Scientific Reports*.
- 2015 **J Monlong**, C Meloche, G Rouleau, P Cossette, SL Girard, and G Bourque. Human copy number variants are enriched in regions of low-mappability. *bioRxiv*.
- 2015 M Melé, P G Ferreira, F Reverter, D S DeLuca, **J Monlong**, M Sammeth, et al., and The GTEx Consortium. The human transcriptome across tissues and individuals. *Science*.
- 2015 **The GTEx Consortium**. The Genotype-Tissue Expression (GTEx) pilot analysis: Multitissue gene regulation in humans. *Science*.
- 2015 D D Pervouchine, S Djebali, A Breschi, C A Davis, P P Barja, A Dobin, A Tanzer, J Lagarde, C Zaleski, L See, M Fastuca, J Drenkow, H Wang, G Bussotti, B Pei, S Balasubramanian, **J Monlong**, and et al. Enhanced transcriptome maps from multiple mouse tissues reveal evolutionary constraint in gene expression. *Nature Communications*.
- 2014 **J Monlong**, M Calvo, P G Ferreira, and R Guigó. Identification of genetic variants associated with alternative splicing using sQTLseeker. *Nature Communications*.
- 2014 P G Ferreira, P Jares, D Rico, G Gomez-Lopez, A Martinez-Trillos, N Villamor, S Ecker, A Gonzalez-Perez, D G Knowles, **J Monlong**, and et al. Transcriptome characterization by rna sequencing identifies a major molecular and clinical subdivision in chronic lymphocytic leukemia. *Genome research*.
- 2013 T Lappalainen, M Sammeth, M R Friedlander, P A t Hoen, **J Monlong**, and et al. Transcriptome and genome sequencing uncovers functional variation in humans. *Nature*.
- 2013 P C t Hoen, et al., and **Geuvadis Consortium**. Reproducibility of high-throughput mRNA and small RNA sequencing across laboratories. *Nature biotechnology*.
- 2013 **GTEx Consortium**. The Genotype-Tissue Expression (GTEx) project. *Nat Genet*.
- 2011 A. Seigneurin, O. Francois, J. Labarere, P. Oudeville, **J. Monlong**, and M. Colonna. Overdiagnosis from non-progressive cancer detected by screening mammography: stochastic simulation study with calibration to population based registry data. *BMJ*.

## Scientific Presentations

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- 2017 QUEBEC, CANADA, Montreal.  
**Oral** presentation, Human Genetics Dept. Research Day.
- 2017 QUEBEC, CANADA, Quebec.  
**Oral** presentation, *6th Annual Canadian Human and Statistical Genetics Meeting*.
- 2016 SPAIN, Barcelona.  
**Poster** presentation, *European Society of Human Genetics* conference. Best Poster Award candidate.
- 2016 JAPAN, Kyoto.  
**Oral** presentation, *13th International Congress of Human Genetics*.
- 2015 SCOTLAND, Glasgow.  
**Poster** presentation, *European Society of Human Genetics* conference.
- 2015 BC, CANADA, Vancouver.  
**Oral** presentation, *4rd Annual Canadian Human and Statistical Genetics Meeting*.

- 2014 UK, Cambridge.  
**Oral** presentation, *Genome Informatics* conference.
- 2014 QUEBEC, CANADA, Montreal.  
**Oral** presentation, Human Genetics Dept. Research Day.
- 2014 BRITISH COLUMBIA, CANADA, Victoria.  
**Poster** presentation at the *3rd Annual Canadian Human and Statistical Genetics Meeting*.
- 2014 NEW MEXICO, USA, Santa Fe.  
**Poster** presentation at the *Mobile Genetic Elements and Genome Evolution* Keystone conference.
- 2013 QUEBEC, CANADA, Esterel.  
**Poster** presentation at the *2nd Annual Canadian Human and Statistical Genetics Meeting*.
- 2013 MONTANA, USA, Big Sky.  
**Poster** presentation at the *Mobile DNA in Mammalian Genomes* FASEB conference.
- 2011 SPAIN, Barcelona.  
**Poster** presentation at the *XIIIth Spanish Biometry Conference and 3rd Ibero-American Biometry Meeting*.

## Other Activities

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- 2013-2017 MCGILL UNIVERSITY.  
Organizer and instructor of seven full-day *Introduction to R and Bioinformatics* workshops for Human Genetics graduate students.
- 2014-2017 MCGILL UNIVERSITY.  
VP Communications at the Human Genetics Student Society.
- 2017 UNIVERSITÉ DE MONTREAL.  
Participated to a Bio-Hackaton. Our 24h project was to detect of filaments from 3D cell imaging.
- 2017 IRCM, MONTREAL.  
Gave a [short seminar about the Gviz package](#) at the [Montreal Bioinformatics User Group](#).
- 2016 KYOTO, JAPAN.  
Instructor at the *4th Kyoto Course and Symposium on Bioinformatics for Next Generation Sequencing with Applications in Human Genetics*.
- 2015 UNIVERSITÉ DE MONTREAL.  
Participated to a Bio-Hackaton. Our 24h project was to develop interactive visualization of gene expression in cancer samples.
- 2014 MCGILL UNIVERSITY.  
Teaching Assistant for the *Advanced Statistical Concepts in Genetic and Genomic Analysis* course.
- 2014 MCGILL UNIVERSITY.  
Organizer of a four-days *R and Bioinformatics* workshop for System Biology graduate students.