

# Florian Wünnemann

POSTDOC AT THE LETTRE LAB

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**Research and scientific interests:** Human genetics, Single cell OMICS, Heart development, Bioinformatics, Machine Learning, Computer vision, Open source software

## 🧪 Research experience

### Montreal Heart Institute

Montreal, Canada

POSTDOC IN THE LETTRE LAB

Aug.2018 - ongoing

- Projects focused on high-throughput CRISPR screens, polygenic risk scores, genetics of heart valve disease and development of single-cell screens to investigate human cellular traits.

### Universite de Sherbrooke

Sherbrooke, Canada

PROFESSIONNEL RECHERCHE NIV. II

Jan. 2019 - ongoing

- Part of the GenAP initiative ([www.genap.ca](http://www.genap.ca)) as single-cell expert, to include single-cell tools into the GenAP2 platform. Development of Galaxy tools, Rshiny applications and docker containers for single-cell analysis.

### IEB, University of Münster

Münster, Germany

STUDENT RESEARCH ASSISTANT

Sep.2011 - Jul.2012

- Acquisti group: Analysis of genomes and metagenomes in the context of nutrient limitation and fertilization.

### IEB, University of Münster

Münster, Germany

STUDENT ASSISTANT

Mar.2011 - May 2011

- Bornberg-Bauer group

## 🎓 Education

### University of Münster / CHU Sainte Justine Research Center

Münster, Germany / Montreal, Canada

PH.D. (DR.RER.NAT) - LIFE SCIENCES

Apr.2014 - Apr.2018

- Thesis title: The role of genetic factors in pathogenesis and progression of cardiac malformations

### University of Münster

Münster, Germany

MSc IN LIFE SCIENCES

Oct.2011 - Feb.2014

- Thesis title: Functional and genetic characterization of a novel arrhythmic syndrome

### University of Münster

Münster, Germany

BSc IN LIFE SCIENCES

Oct.2008 - Sep.2011

- Thesis title: Impact of nutrient limitation in insects: Comparative genomics of the pea aphid and the human body louse

## 💰 Funding History

POSTDOCTORAL TRAINING (CANADIAN CITIZENS AND PERMANENT RESIDENTS) SCHOLARSHIP, FONDS DE RECHERCHE QUÉBEC SANTÉ (FRQS)

2019 - 2021

## 🏆 Achievements and Awards

2021/06	Poster prize: Prix Fonds de recherche du Québec (FRQS) (Recherche fondamentale doctorale / Postdoc)	Montreal, Canada
2019/06	Best oral presentation award, 22nd Montreal Heart Institute research day	Montreal, Canada
2017/05	Best oral presentation award, 32nd student congress at the CHU Sainte-Justine	Montreal, Canada
2016/05	Markwald award for best oral presentation, Weinstein Cardiovascular Development and Regeneration Conference 2016	Durham, USA