

Stephane Castel
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Academic

Cold Spring Harbor Laboratory Ph.D. Candidate, Watson School of Biological Sciences NSERC – PGSD Award Holder, Cashin Scholar	2009 - Present
University of Guelph B.Sc.H. Molecular Biology and Genetics, Dean’s Honours List, College Roll of Distinction	2005 – 2009
Orangeville District Secondary School Physics Award, Ontario Scholar	2001 – 2005

Awards

NSERC Post Graduate Scholarship (Doctorate)	2011 - 2013
NSERC Post Graduate Scholarship (Masters)	2009 - 2010
NSERC Undergraduate Student Research Award	2008

Publications

Peña KL, **Castel SE**, de Araujo C, Espie GS, Kimber MS. Structural basis of the oxidative activation of the carboxysomal gamma-carbonic anhydrase, CcmM. *PNAS* 107(6), 2455-60 (2010).

Zaratiegui M, **Castel SE***, Irvine DV*, Kloc A*, Ren J*, Li F, de Castro E, Marín L, Chang AY, Goto D, Cande WZ, Antequera F, Arcangioli B, Martienssen RA. RNAi promotes heterochromatic silencing through replication-coupled release of RNA Pol II. *Nature* 479(7371), 135-138 (2011).

* Contributed equally, listed in alphabetical order

Experience

Maintenance Assistant

2006 - Present

Senior Developer, Founder

Maintenance Assistant is a software company that provides an enterprise level computerized maintenance management solution, which has been installed by thousands of companies worldwide. As a senior developer I have been responsible for spearheading new innovative initiatives including interface redesign, advanced statistics gathering, and interactive setup tutorials.

Kimber Lab

2008 - 2009

University of Guelph - Research Assistant

My project with Dr. Matt Kimber involved investigating the structure and function of the carboxysomal protein CcmM using x-ray crystallography, and a computational project which analyzed the effect of poly-histidine tagging on crystal packing in X-ray protein structures. *See publications.*

Merrill Lab

2006 - 2007

Undergraduate Research Assistant

Through the work-study program I was able to work as a research assistant in the lab. My duties involved preparing reagents, and assisting in protein purifications.

Technical Skills

Laboratory

Experienced in advanced molecular biology and crystallography related laboratory techniques. Extensive bioinformatics skills, especially in the area of sequencing data analysis.

Computational

Experience in SQL database implementation and management. Proficient in programming using C++/C , Java, JavaScript, Python, PHP, and Salesforce Apex. Previous programming experience involves development of a wide variety of applications, ranging from scientific data processing to asset management.

References

Available upon request.