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BOARD MEMBER Future of Research, LLC 2018-Present

RESEARCH FACILITATOR Physiology Course Marine Biological Laboratory Woods Hole, MA Summers 2016-2018

CO-ORGANIZER & CO-FOUNDER The Triangle Cytoskeleton Meeting 2014-2017

CITY COORDINATOR Research Triangle Park Pint of Science US 2016

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GRADUATE STUDENT Biology UNC-Chapel Hill Chapel Hill, NC 2012-Present

VISITING STUDENT Biophysics UC, Berkeley Berkeley, CA Spring 2016

STUDENT Physiology Course Marine Biological Laboratory Woods Hole, MA Summer 2015

VINCENT BOUDREAU

As a computational cell biologist and microscopist, observing cells carry out complex behavior inspires me. Using biologically-designed tools to engineer solutions to global problems drives me. I'm committed to using biomimicry to develop technology for the renewable energy sector and others.

EXPERIENCE

Future of Research (FoR) is a 501(c)(3) nonprofit organization created for and by early career researchers to make the research enterprise more sustainable for future generations. I execute fundraising initiatives and contribute to our efforts in incentivizing scientific societies to include early career researchers in leadership positions across the research enterprise.

Under Dr. Wallace Marshall's supervision, I developed a research plan and oversaw the success of the Physiology Course's students in answering biological questions in a discovery-based setting. We examined the cell biological and metabolic relationship between a wild species of the pond dwelling protist Stentor and its endosymbiotic alga.

Through the Triangle Cytoskeleton Meeting, our team aimed to provide a forum to present and discuss cutting edge research on the cytoskeleton in addition to promoting communication and collaboration between research institutions. Our 2014 to 2016 meetings gathered a total of over 600 attendees and raised more than \$60K in grants, sponsorships and awards.

Through a series of discussions about the importance, the similarities, the differences and the processes of pursuing art and science, we strived to bridge the communication gap between the general public and highly skilled artists and scientists.

EDUCATION

Under Dr. Paul Maddox's supervision, I've studied the cell biological and biophysical components of nuclear expansion as nuclei are assembled. I've used cultured human cells, flies and worms as model organisms and genetic, cell biological, imaging and computational as technological approaches.

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I established a collaboration with Dr. Hernan Garcia's lab to study the timing and regulation of transcription activation with respect to cell division using advanced microscopy, image analysis and computational biology approaches. This work was initiated in the context of the Physiology Course at the Marine Biological Laboratory.

I completed this research-based, intensive bootcamp-like course aimed at bridging the biological, physical and computational sciences to lead to new research discoveries. During the course I discovered a new structure within a pond-dwelling organism that physically supports the life of the organism's endosymbiotic algae. UNDERGRADUATE STUDENT Biochemistry University of Montreal Montreal, QC 2009-2012 Under the supervision of Dr. Vincent Archambault, I conducted genetic and proteomic screens to identify novel molecular interactions of critical importance to the exit from mitosis using the fly embryo.

PUBLICATIONS ------

Boudreau V., Chen R., Edwards A., Muhammad S., Maddox P.S. (2018) Centrosome-nuclear envelope tethering and microtubule motor-based pulling forces collaborate in centrosome positioning during mitotic entry. bioRxiv 442368; doi: https://doi.org/10.1101/442368

Hatkevich T., **Boudreau V.**, Rubin T., Huynh J.-R., Maddox P.S., Sekelsky J. Centromere clustering promotes meiotic homolog pairing and synapsis. (in preparation)

Mehsen M., **Boudreau V.**, Garrido D., Bouroh M., Larouche M., Maddox P.S., Swan A., Archambault V. (2018) PP2A-B55 promotes nuclear envelope reformation after mitosis in Drosophila. J Cell Biol, vol 217, 4106-4123

Byrnes A.E., Lowe B.F., **Boudreau V.**, Slep K.C. Polarized TOG arrays cooperatively bind tubulin to promote microtubule dynamics. (in revision)

Boudreau V., Hazel J., Sellinger J.K., Chen P., Manakova K., Radzyminski R., Garcia H.G., Allard J., Gatlin J., Maddox P.S. (2018) Nucleo-cytoplasmic trafficking regulates nuclear surface area during nuclear organogenesis. bioRxiv 326140; doi: https://doi.org/10.1101/326140 (in revision)

Ryan J., Gerhold A.R., **Boudreau V.**, Smith L., Maddox P.S. (2017) Introduction to Modern Methods in Light Microscopy. In: Markaki Y., Harz H. (eds) Light Microscopy. Methods in Molecular Biology, vol 1563. Humana Press, New York, NY

	FUNDING
DOCTORAL FELLOWSHIP 2014-2017	<i>Fonds de recherche en sant é du Québec</i> (FRSQ) - Quebec's NIH Competitive funding: 25% success rate
POST COURSE RESEARCH FELLOWSHIP - 2016	Funding to conduct research in Dr. Hernan Garcia's laboratory at the University of California - Berkeley
PHYSIOLOGY COURSE Summer 2015	Burroughs Wellcome Fund and Caswell Grave Scholarship Fund
MASTER'S FELLOWSHIP 2012-2014	<i>Fonds de recherche en santé du Québec</i> (FRSQ) - Quebec's NIH Competitive funding: 33.8% success rate
RESEARCH FELLOWSHIP 2012-2014	<i>Faculté des études supérieures et postdoctorales</i> (FESP) Support for the direct transition to the PhD from the BSc
UNDERGRADUATE FELLOWSHIP 2010	The Canadian Society for Mucopolysaccharide and Related Diseases
	P R I Z E S
HONOR SOCIETY INDUCTION 2018	Induction into the "Frank Porter Graham Graduate and Professional Student Honor Society" of the University of North Carolina at Chapel Hill
TRAVEL AWARD 2015	Travel award to attend the American Society for Cell Biology's 2015 annual meeting in San Diego, CA Geston & Schatz, P.C.
OUTSTANDING POSTER PRESENTATION - 2015	Developmental & Stem Cell Biology Symposium University of North Carolina at Chapel Hill
BEST ORAL PRESENTATION 2013	Simon-Pierre Noël prize - Biochemistry department University of Montreal

BEST POSTER PRESENTATION 2012	GE Healthcare prize 4 th IRIC Scientific Day, University of Montreal
BEST POSTER PRESENTATION Second place 2012	Canadian Society for Molecular Biosciences (CSMB) Biochemistry department, University of Montreal
	PRESENTATIONS
MINISYMPOSIUM TALK ASCB Annual Meeting - Philadelphia, PA 2017	Nuclear organogenesis requires nuclear surface area regulation through nucleo-cytoplasmic trafficking
TALK Triangle Cytoskeleton Meeting - Saxapahaw, NC 2017	PP2A-B55 and Lamin B collaborate in regulating centrosome migration during mitotic spindle formation
TALK Kinetochore Dynamics Meeting - Copenhagen, DK 2015	Completing mitosis requires the timely reactivation of nucleocytoplasmic trafficking
INVITED SPEAKER University of Sherbrooke 2014	PP2A interagit génétiquement et physiquement avec le centromère Biochemistry department symposium
TALK MCCCM 2012	PP2A-B55/Tws collaborates with CENP-C for the cell cycle progression and regulates merotelic kinetochore-microtubule attachments in anaphase Montreal Cell Cycle and Cytoskeleton Meeting

LANGUAGES

ENGLISH FRENCH RUSSIAN