

Postdoctoral position: Temperature thresholds and autocorrelation in structured population models of endangered aquatic species.

Autocorrelated temperature variation can create windows of negative conditions that can increase risk of extinction of even moderately large populations. In addition, transient dynamics of structured populations can also affect population persistence and recovery. It seems extremely likely that the transient dynamics of small populations far from a stable age or size distribution may interact with autocorrelated environmental variation in ways that could significantly increase the extinction risk. In collaboration with National Research Council Canada (CNRC-NRC) and Fisheries and Oceans Canada (DFO), the postdoctoral researcher will examine the impact of autocorrelated temporal variation on the transient dynamics of structured population models of SARA-listed aquatic species. The position will require the analysis of temperature threshold probabilities and autocorrelation in addition to population modelling.

We are seeking applications for a Postdoctoral Fellow position to work on temperature variation and extinction risk. Candidates must hold a PhD in an appropriate discipline (e.g. Ecological modelling, Mathematical Biology, Statistics of Ecological Systems) at the time of appointment and have experience working in a research environment. The anticipated start date is January 2019. This is a one year position with possibility of being renewed for a second year (contingent on funding). The salary is \$42,000 plus health benefits. The Postdoctoral Fellow will work collaboratively with the team taking an active leadership role. Moreover, the candidate will be expected to be involved in grant submissions, mentoring of graduate students, article and presentation preparation, as well as knowledge translation activities for DFO users.

How to Apply:

To apply, please send the following to Dr. Kim Cuddington via email: kcudding@uwaterloo.ca

- A complete CV
- A statement on how the applicant can fit the position (max one page)
- Graduate transcripts
- Names and contact information for three referees

Review of applications will begin immediately and continue until a successful candidate is identified.

The University of Waterloo regards diversity as an integral part of academic excellence and is committed to employment equity and accessibility for all employees. As such, we encourage applications from women, Indigenous (First Nations, Métis and Inuit) peoples, persons with disabilities, members of diverse gender identities, and others who may contribute to the further diversification of ideas. At Waterloo, you will have the opportunity to work across disciplines and collaborate with an international community of scholars and a diverse student body, situated in a rapidly growing community that has been termed a “hub of innovation”. All qualified candidates are encouraged to apply; however, Canadians and permanent residents will receive priority in the recruitment process.

In just sixty years, the University of Waterloo, located at the heart of Canada's technology hub, has become one of Canada's leading comprehensive universities with 36,000 full- and part-time students in undergraduate and graduate programs. A globally focused institution, celebrated as Canada's most innovative university for 26 consecutive years, Waterloo is home to the world's leading post-secondary co-operative education program and encourages enterprising partnerships in learning, research and discovery. In 2017 the University was named among Canada's top 100 employers.