

## Publications

- Cheng, L., Engelhardt, B., **Chivers, C.**, & Draugelis, M. (2016), Structured Sparse Gaussian Processes for Medical Time-Series Analysis. *Conference on Uncertainty in Artificial Intelligence (UAI)*. June 2016, New York, NY.
- **Chivers, C.**, & Leung, B. (2015), Estimating the probability of establishment and spread of biological organisms: Issues of uncertainty, detection and presence-only data. *In review*.
- **Chivers, C.**, Leung, B., Yan, N. D. (2014), Validation and calibration of probabilistic predictions in ecology. *Methods in Ecology and Evolution*, **5**: 1023–1032. doi:[10.1111/2041-210X.12238](https://doi.org/10.1111/2041-210X.12238)
- Low-Décarie, E., **Chivers, C.**, and Granados, M. (2014), Rising complexity and falling explanatory power in ecology. *Frontiers in Ecology and the Environment* **12**: 412–418. do: [10.1890/130230](https://doi.org/10.1890/130230)
- Bradie, J., **Chivers, C.** & Leung, B. (2013), Importing risk: quantifying the propagule-pressure establishment relationship at the pathway level. *Diversity and Distributions*. doi:[10.1111/ddi.12081](https://doi.org/10.1111/ddi.12081)
- **Chivers, C.** & Leung, B. (2012) Predicting invasions: Alternative models of human-mediated dispersal and interactions between dispersal network structure and Allee effects. *Journal of Applied Ecology*, **49**: 1113-1123. doi:[10.1111/j.1365-2664.2012.02183.x](https://doi.org/10.1111/j.1365-2664.2012.02183.x)
- Aukema JE, Leung B, Kovacs K, **Chivers C**, Britton KO, et al. (2011) Economic Impacts of Non-Native Forest Insects in the Continental United States. *PLoS One* **6**(9): e24587. doi:[10.1371/journal.pone.0024587](https://doi.org/10.1371/journal.pone.0024587)

## Selected Presentations

- **Chivers, C.** (2016) Predictive Healthcare: Breaking down the barriers and mystique of the technology for health systems. *Healthcare Financial Management Association Data Analytics Seminar*. (Philadelphia, PA. April, 2016)
- **Chivers, C.** (2015) PennSignals: Accelerating Machine Learning Solutions and predictive applications in health care. *DataPhilly*. (Philadelphia, PA. April, 2015)
- **Chivers, C.** (2013) FromWhaleCallstoDarkMatter:CompetitiveDataSciencewithRandPython. *Montreal Python*. (Montreal, QC. June, 2013)
- **Chivers, C.** & Leung, B. (2013) Implicationsofuncertainty:Bayesianmodelingofaquaticinvasivespeciesspread. *International Conference on Aquatic Invasive Species*. (Niagara Falls, ON. April, 2013)
- **Chivers, C.** (2013) FutureAvenuesforOpenData. *Open Data Exchange*. (Montreal, QC. April, 2013)
- **Chivers, C.** (2013) PredictiveEcologyandManagementDecisionsUnderUncertainty. *McGill BGSA Organismal Seminar Award*. (Montreal, QC. January, 2013)
- **Chivers, C.** & Leung, B. (2011) InteractionsbetweendispersalnetworkstructureandAlleeEffects. *Quebec Centre For Biodiversity Science*. (Montreal, QC. September, 2011) ([french](#))

## Posters

- **Chivers, C.**, Guillemette, J., Ragan, K. (2012) PredictiveModelingofStudentGradesandComparisonswithConceptualGains. *The Society for Teaching and Learning in Higher Education*. (Montreal, QC. June, 2012)
- **Chivers, C.** (2009) WhyAren'tWeAllBayesians? *Paris Interdisciplinary PhD Symposium*. (Paris, France. December, 2009)

## Editorial and Review Service

- ThePerformanceofOpenSourceApplications - Technical review

- Reproducible Research with R & RStudio. CRC Taylor & Francis Press - Peer review (book)
- Ecological Applications - Peer review
- Trend in Ecology and Evolution - Peer review
- Biological Invasions - Peer review
- Journal of Applied Ecology - Peer review

## **Collaborative Groups**

- [NCEAS](#) The National Center for Ecological Analysis and Synthesis (Non-Native Forest Pests and Pathogens Working Group)
- [CAISN](#) Canadian Aquatic Invasive Species Network

## **Media Coverage**

- New York Times [In This Battle Arena, Warriors Are Armed With Algorithms](#)
- Wall Street Journal [Do the Numbers Behind Prism Add Up?](#)
- Nature News [Is ecology explaining less and less?](#)
- LA Times [More global trade means more forest pests](#)
- Washington Post [Invasive insects are growing threat to trees, forests](#)
- New York Times [The Toll From Tree-Boring Pests](#)
- Montreal Gazette [McGill grad student visualizes Bixi station activity and Bike accidents visualized overtime](#)
- Wall Street Journal [Taxpayers Feel Bite From Invasive Species](#)
- Science Daily [Local Government, Homeowners Paying Price for Non-Native Forest Insects, U.S. Study Finds](#)
- Scientific American [Invasive Insects Take Big Cash Bite](#)
- BBC [P-value fallacy on More or Less](#)
- Quartz [Simple math shows why the NSA's Facebook spying is a fool's errand](#)
- Popular Science [A Concise History of the NSA's Online Spying Program PRISM](#)

## **Hackathons**

- [DataForGood](#) Health outcomes of early diagnoses of Cystic Fibrosis
- [Hacktaverse](#) Prize for most interesting data mashup. Project: Velostacle
- [HackReduceMontreal](#) First place team for Bixi data visualization

## **MOOCs**

- [Stanford CS184](#) Startup Engineering
- [Intro to Hadoop MapReduce](#) Coursera