Koji Tominaga

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Education

2009–2013	PhD in Biology, University of Oslo
2007-2009	MSc in Environmental Science, Trent University
2003-2007	BSc in Environmental Science, Trent University

Academic Exchanges

Feb–Mar 2009	Technische Universität München
Apr–Jun 2009	Norwegian Institute for Water Research

Work Experiences

2013–current	Researcher, University of Oslo
2010–2013	Part-time Researcher, Norweigian Institute for Water Research
2006–2009	Research Assistant, Trent University
2007–2008	Teaching Assistant, Trent University
2008	Seminar Instructor, Trent University
2006–2007	Grader, Trent University
2006–2007	Technical Assistant, Kawartha World Issues Centre

Theses

- [1] Tominaga K (2013) Lake Modelling: an interdisciplinary context. PhD thesis, University of Oslo, Oslo, Norway.
- [2] Tominaga K (2009) Uncertainty evaluation of four dynamic acidification models: MAGIC, PnET-BGC, SAFE and VSD. MSc thesis, Trent University, Peterborough, Ontario, Canada.
- [3] Tominaga K (2007) Monitoring of hardwood forest health in south-central Ontario, Canada: survival analysis and remote sensing analysis. BSc honours thesis, Trent University, Peterborough, Ontario, Canada.

Peer-reviewed Journal Articles

- [4] Couture RM, Tominaga K, Starrfelt J, Moe SJ, Kaste Ø, et al. (2014) Modelling phosphorus loading and algal blooms in a nordic agricultural catchment-lake system under changing land-use and climate. Environ Sci: Processes Impacts 16: 1588–1599.
- [5] Trolle D, Hamilton DP, Hipsey MR, Bolding K, Bruggeman J, et al. (2012) A community-based framework for aquatic ecosystem models. Hydrobiologia 683: 25–34.
- [6] Tominaga K, Aherne J, Watmough SA, Alveteg M, Cosby BJ, et al. (2010) Predicting acidification recovery at the hubbard brook experimental forest, new hampshire: Evaluation of four models. Environ Sci Technol 44: 9003–9009.

- [7] Mooij WM, Trolle D, Jeppesen E, Arhonditsis G, Belolipetsky PV, et al. (2010) Challenges and opportunities for integrating lake ecosystem modelling approaches. Aquat Ecol 44: 633–667.
- [8] Tominaga K, Aherne J, Watmough S, Alveteg M, Cosby B, et al. (2009) Voyage without constellation: evaluating the performance of three uncalibrated process-oriented models. Hydrol Res 40: 261–272.
- [9] Tominaga K, Watmough S, Aherne J (2008) Predicting tree survival in ontario sugar maple (acer saccharum) forests based on crown condition. Can J Forest Res 38: 1730–1741.

Conference Presentations (Selection)

- [10] Couture RM, Shafei B, Markelov I, Tominaga K, Starrfelt J, et al. (2013) Linking the benthic cycling of p to its surface water dynamics in lakes. Uppsala, Sweden. 7th International Phosphorus Workshop (IPW7).
- [11] Tominaga K, Finstad AG, Kaste Ø, Andersen T (2012) Future climate change impact on lakes in fennoscandia: A dynamic mechanistic approach. Otsu, Shiga, Japan. 2012 ASLO Aquatic Sciences Meeting.
- [12] Tominaga K (2010) Ensemble model framework for lake ecosystem modelling case study from acidification modelling. Silkeborg, Denmark. Lake Ecosystem Modelling Workshop.
- [13] Tominaga K, Aherne J, Watmough SA, Alveteg M, Cosby BJ, et al. (2009) Modelling acidification recovery at long-term monitoring sites: a multi-model evaluation. Helsinki, Finland. 6th International Symposium on Ecosystem Behaviour BIOGEOMON 2009.
- [14] Tominaga K, Aherne J, Watmough SA, Alveteg M, Cosby BJ, et al. (2009) Predicting future soil and stream chemistry using an ensemble of acidification models at hubbard brook. Lincoln, New Hampshire, USA. 46th Annual Hubbard Brook Cooperators' Meeting.
- [15] Tominaga K, Aherne J, Watmough SA, Alveteg M, Cosby BJ, et al. (2008) Evaluation of process-oriented acidification models at hubbard brook. Durham, New Hampshire, USA. Northeastern Ecosystem Research Cooperative Conference.
- [16] Tominaga K, Aherne J, Watmough SA (2008) Modelling the chemistry of soil and surface water at hubbard brook, new hampshire, USA. Gananoque, Ontario, Canada. 22nd Annual Gananoque Conference on Environmental Science and Engineering.
- [17] Tominaga K, Watmough SA (2007) Survival analysis of hardwood trees in southern ontario. Gananoque, Ontario, Canada. 21st Annual Gananoque Conference on Environmental Science and Engineering.

I have also participated in approximately 10 other international conferences and meetings and several national/domestic meetings.

Other manuscripts in preparation

- Modelling the response of a cold temperate lake to changes in external forcing.
- Melting and warming of northern lakes.
- Calibration uncertainty in sequential model application.

Achievements

Biogeomon Symposium 2009, Finland

2009 Student scholarship

Research Council of Norway (Norges Forskningsråd)

2009 Norwegian Government Scholarship April-June 2009

German Academic Exchange Service (Deutscher Akademischer Austausch Dienst, DAAD)

2009 | Short-term Study Scholarship February-March 2009

Northeastern Ecosystem Research Cooperative, USA

2008 Travel support for graduate students at the NERC Conference

Trent University (non-student), Canada

2008 Academic Innovation Fund. "Introductory seminar on R for biologists and environmental scientists"

Trent University (graduate)

2007–2009	Graduate Teaching Assistantship and Research Assistantship (declined for 2009)
2007-2009	Research Fellowship Award
2007–2008	Graduate Studies Bursary

At Trent University (undergraduate)

2007	President's Role
2007	J.D. Page Scholarship in Environmental and Resource Studies (ERS)
2003–2007	Dean's Role
2003–2007	Entrance Scholarship (automatically renewable) 2003-2007
2003–2007	Trent International Program (TIP), Board of Governors Bursary (4 times)
2004–2007	In-Course Scholarship (TIP, 3 times)
2004–2007	Trent International Student Association Bursary (3 times)
2006	J. Percy MacNaughton Prize (ERS)
2006	Catherine Parr Traill College Principal's Prize
2006	Honorarium, Kawartha World Issues Centre
2005	Cyril and Jenny Carter Scholarship in Environmental Studies (ERS)
2004	Graham Hartley Chemistry Prize (Chemistry Department)

Computing

HPC and super computer facilities

I have handled more than 1000 computing nodes at the same time, and have handled terabytes of data at the following facilities:

- Notur Abel, Norway
- Amazon Elastic Computing Cloud, Ireland
- Shared Hierarchical Academic Research Computing Network (SHARCNET), Ontario, Canada

Skills Listed by Familiarity

Python, R, Unix, Linux, SSH, LATEX, Git, NetCDF, GIS (GRASS, QGIS), Matlab/Octave, XML, HTML, SQLite, Fortran, C, C++, HTTP.

Miscellaneous

Natural Languages

English fluent
Japanese native
Norwegian elementary
Chinese elementary

Travels

As resident Japan, Canada, Germany, Norway, Malaysia

Assignment United States, Ireland, Sweden, Netherlands, Finland, Denmark, Portugal, Spain,

China

As tourist | Singapore, Thailand, Laos, Myanmar, Czech Republic, Austria, Italy, France, Bel-

gium, Indonesia, Qatar