

Brief Curriculum Vitae – Mr. Bazartseren BOLDGIV

Professor of Ecology, School of Arts and Sciences, National University of Mongolia (NUM), Photo
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(a) PROFESSIONAL PREPARATION

National University of Mongolia (NUM)	Zoology	B.Sc., 1995
National University of Mongolia	Zoology/Ecology	M.Sc., 1997
Cornell University, USA	Nat Resources/Wildlife Science	M.Sc., 2001
University of Pennsylvania, USA	Ecology and Evolutionary Biology	Ph.D., 2006

(b) APPOINTMENTS

2014-present	Research Associate, Academy of Natural Sciences of Drexel University, USA
2008-present	Taylor Family-Asia Foundation Endowed Chair in Ecology and Conservation Biology
2013-2014	Interim Dean of School of Arts and Sciences, NUM
2007-2013	Chair of Department of Ecology, NUM
2007-2013	Assistant and Associate Professor of Department of Ecology, NUM
1997-1999	Secretary of Mongolian LTER Network,
1997-1999	Lecturer of Department of Ecology, NUM,

(c) PRODUCTS RELATED TO THE PROPOSED PROJECT (5):

- Fraser, L.H., J. Pither, A. Jentsch, M. Sternberg, M. Zobel, D. Askarizadeh, S. Bartha, C. Beierkuhnlein, J. Bennett, A. Bittel, **B. Boldgiv**, I.I. Boldrini, E. Bork, L. Brown, M. Cabido, J. Cahill, C.N. Carlyle, G. Campetella, S. Chelli, O. Cohen, A.-M. Csergo, S. Díaz, L. Enrico, D. Ensing, A. Fidelis, J.D. Fridley, B. Foster, H. Garris, J.R. Goheen, H.A.L. Henry, M. Hohn, M. Jouri, J. Klironomos, K. Koorem, R. Lawrence-Lodge, R. Long, P. Manning, R. Mitchell, M. Moora, S.C. Müller, C. Nabinger, K. Naseri, G.E. Overbeck, T.M. Palmer, S. Parsons, M. Pesek, V.D. Pillar, R.M. Pringle, K. Roccaforte, A. Schmidt, Z. Shang, R. Stahlmann, G. Stotz, S.-i. Sugiyama, S. Szentes, D. Thompson, R. Tungalag, S. Undrakhbold, M. van Rooyen, C. Wellstein, J.B. Wilson and T. Zupo. 2015. Worldwide evidence of a unimodal relationship between productivity and plant species richness. *Science* **349**(6245): 302-305. DOI 10.1126/science.aab3916.
- Liancourt, P., **B. Boldgiv**, D. S. Song, L. A. Spence, B. R. Helliker, P. S. Petraitis and B. B. Casper. 2015. Leaf-trait plasticity, vulnerability to climate change, and species coexistence in a Mongolian steppe. *Global Change Biology* **21**(9): 3489-3498. DOI 10.1111/gcb.12934.
- Vandandorj, S., B. Gantsetseg and **B. Boldgiv**. 2015. Spatial and temporal variability in vegetation cover of Mongolia and its implications. *Journal of Arid Land* **7**(4): 450-461. DOI 10.1007/s40333-015-0001-8.
- Narangarvuu, D., J. Oyunbileg, P. S. Yang and **B. Boldgiv**. 2014. Distribution of Ephemeroptera, Plecoptera, and Trichoptera assemblages in relation to environmental variables in headwater streams of Mongolia. *Environmental Earth Sciences* **73**(2): 835-847, DOI 10.1007/s12665-013-2968-9.
- Free, C. M., O. P. Jensen, S. A. Mason, M. Eriksen, N. J. Williamson and **B. Boldgiv**. 2014. High-levels of microplastic pollution in a large, remote, mountain lake. *Marine Pollution Bulletin* **85**(1): 156-163. DOI <http://dx.doi.org/10.1016/j.marpolbul.2014.06.001>.

Other Significant Products (5):

- Spence, L. A., P. Liancourt, **B. Boldgiv**, P. S. Petraitis, and B. B. Casper. 2014. Climate change and grazing interact to alter flower patterns in the Mongolian steppe. *Oecologia* **175**(1): 251-260, DOI 10.1007/s00442-014-2884-z.

- Lkhagva, A., **B. Boldgiv**, C. E. Goulden, Y. Oyunchuluun and W. K. Lauenroth. 2013. Effects of grazing on plant community structure and aboveground net primary production of semi-arid boreal steppe of northern Mongolia. *Grassland Science* **59**(3): 135-145, DOI: 10.1111/grs.12022.
- Liancourt, P., L. A. Spence, D. Song, A. Lkhagva, A. Sharkhuu, **B. Boldgiv**, B. R. Helliker, P. S. Petraitis and B. B. Casper. 2013. Plant response to climate change varies with topography, interactions with neighbors, and ecotype. *Ecology* **94**(2): 106-115, DOI 10.1890/12-0780.1.
- Sharkhuu, A., A. F. Plante, O. Enkhmandal, B. B. Casper, B. R. Helliker, **B. Boldgiv**, and P. S. Petraitis. 2013. Effects of open-top passive warming chambers on soil respiration in the semi-arid steppe to taiga forest transition zone in northern Mongolia. *Biogeochemistry* **115**(1-3): 333-348, DOI 10.1007/s10533-013-9839-z.
- Liancourt, P., L. Spence, **B. Boldgiv**, L. Ariuntsetseg, B. R. Helliker, B. B. Casper and P. S. Petraitis. 2012. Vulnerability of the northern Mongolian steppe to climate change: insights from flower production and phenology. *Ecology* **93**(4): 815-824, DOI 10.1890/11-1003.1.

(d) SYNERGISTIC ACTIVITIES

1. Boldgiv has worked to foster scientific communication between Mongolian and international scientists and students. He worked as a translator/editor-in-chief of translations of the *Ecology* by C. J. Krebs and *Evolution* by D. Futuyma (English to Mongolian), and *A Guide to the Amphibians and Reptiles of Mongolia* and *Field Guide to Mammals of Mongolia*. He is also an author of a background chapter for Mongolian National Human Development Report 2011.
2. Under supervision of Dr. Peter Petraitis, Boldgiv also consulted on statistical analyses for the Hövsgöl GEF Project research. He has also introduced and taught new graduate courses in ecology, evolution and biostatistics.
3. Boldgiv has been serving as a secretary for the Mongolian Long Term Ecological Research Steering Committee from 1997 when the MLTER was established. A member of the Ecological Society of America (since 2009).
4. Boldgiv has been serving as an academic editor for *PLoS One* since 2013.

(e) COLLABORATORS DURING THE LAST 48 MONTHS

Dr. Jonathan Adams (Seoul National University, South Korea), Dr. Satoru Arai (National Institute of Infectious Diseases, Tokyo, Japan), Dr. Uudus Bayarsaikhan (National University of Mongolia), Dr. Brenda Casper (University of Pennsylvania, USA), Dr. Jon Gelhaus (Academy of Natural Sciences of Drexel University, USA), Dr. Clyde E. Goulden (Academy of Natural Sciences of Drexel University, USA), Dr. Barbara Hayford (Wayne State College, USA), Dr. Brent Helliker (University of Pennsylvania, USA), Dr. Olaf Jensen (Rutgers University, USA), Dr. Pierre Liancourt (Czech Academy of Sciences, Czech Republic), Dr. Ariuntsetseg Lkhagva (National University of Mongolia), Dr. Dashdondog Narangarvuu (National University of Mongolia), Dr. Peter Petraitis (University of Pennsylvania, USA), Dr. Laura Spence (Sterling College, USA)

Graduate and postdoctoral advisors

Osor Shagdarsuren (Master's advisor)	National University of Mongolia, Mongolia
Paul D. Curtis (Master's advisor)	Cornell University, Ithaca, NY, USA
Peter S. Petraitis (Ph.D. advisor)	University of Pennsylvania, Philadelphia, PA, USA

Graduate students and postdoctoral scholars

During the last five years, Boldgiv has advised/been advising 15 Master's students, 5 PhD students and 2 postdoctoral research fellows.