
JOSHUA P. NEWELL

School of Natural Resources and Environment
University of Michigan
1064 Dana Building | 440 Church Street | Ann Arbor, MI 48109
jpnewell@umich.edu | Tel: 734-763-8652 | Fax: 734-763-8965

EDUCATION

2008	Ph.D. (Urban Ecology Certificate)	Geography	University of Washington
2003	M.A.	Geography	University of Washington
1991	B.A.	History	Brown University

PROFESSIONAL APPOINTMENTS

2010–present	Assistant Professor School of Natural Resources and Environment, University of Michigan <i>Faculty Affiliate/Associate</i> Center for Sustainable Systems; Program in the Environment; Erb Institute for Global Enterprise; Graham Environmental Sustainability Institute; Center for Russian, East European, and Eurasian Studies; Center for Japanese Studies
2009–2010	Research Assistant Professor Center for Sustainable Cities, Price School of Public Policy, University of Southern California
2008–2009	Research Assistant Professor Department of Geography, University of Southern California

RESEARCH INTERESTS

- Theories, models and practices of urban sustainability
- Urban infrastructure and form
- Industrial ecology (life cycle assessment, material flow analysis)
- Commodity (wood products) flows and uneven development
- Environmental certification, corporate social responsibility, and greenwash
- Russian Far East, Japan, and Northeast China
- Interdisciplinary research

PUBLICATIONS

Refereed Journal Articles

22. Meerow, S., **Newell, J.P.**, and Stultz, M. Defining urban resilience: A review. *Landscape and Urban Planning*. In Press.
21. 2015. Liang, S., Guo S., **Newell, J.P.**, Feng Y., Chin, A., and Xu, M. Global drivers of Russian wood harvest. *Journal of Industrial Ecology*. In press.
20. 2015. Fang, A., **Newell, J.P.**, and Cousins, J. The energy and emissions footprint of water supply for southern California. *Environmental Research Letters*, 10(11): 1-11.

19. 2015. Pandit, A., Minne, E.A., Li, F., Brown, H., Jeong, H., James, J.C., **Newell, J.P.**, Weissburg, M., Change, M.E., Xu, M., Yang, P., Wang, R., Thomas, V.M., Yu, X., Lu, Z., & Crittenden, J.C. Infrastructure ecology: An evolving paradigm for sustainable urban development. *Journal of Cleaner Production*. DOI 10.1016/j.jclepro.2015.09.010.
18. 2015. Cousins, J. & **Newell, J.P.** A political-industrial ecology of water supply infrastructure for Los Angeles. *Geoforum*, 58: 38–50.
17. 2015. Meerow, S. & **Newell, J.P.** Complexity and resilience: A bibliometric review and prospects for industrial ecology. *Journal of Industrial Ecology*, 19(2): 236-251.
16. 2015. **Newell, J.P.** & Cousins, J. The boundaries of urban metabolism: Towards a political-industrial ecology. *Progress in Human Geography*, 39(6): 702-728.
15. 2015. Kim, O.S., & **Newell, J.P.** The “geographic emission benchmark” model: A baseline approach to measuring emissions associated with deforestation and forest degradation. *Journal of Land Use Science*, 10(4): 466-489.
14. 2014. **Newell, J.P.** & Simeone, J. Russia’s forests in a global economy: How consumption drives environmental change. *Eurasian Geography & Economics*, 55(1): 37–70.
13. 2014. Lee, K., **Newell, J.P.**, & Wolch, J.R. “Story-networks” of livestock and climate change: Actors, their artifacts, and the shaping of urban print media. *Society & Natural Resources*, 27(9): 948–963.
12. 2014. Reynolds, K.D., Dahmann, N., Wolch, J.R., Joassart-Marcelli, P., Dunton, G., Rudolph, D., **Newell, J.P.**, Thayer, J., & Jerrett, M. Factors predicting the capacity of Los Angeles-region recreation programs to promote energy expenditure. *Health & Place*, 28: 67–72.
11. 2014. Wolch, J.R, Byrne, J., & **Newell, J.P.** Urban green space, public health and environmental justice: The challenge of making cities ‘just green enough.’ *Landscape and Urban Planning*, 125: 234–244. [*3rd Most Downloaded Article in journal for 2014*]
10. 2013. **Newell, J. P.**, Seymour, M., Yee, T., Renteria, J., Longcore, T., Wolch, J. R., & Shishkovsky, A. Green alley programs: Planning for a sustainable urban infrastructure? *Cities*, 31: 144–155.
9. 2012. **Newell, J.P.**, & Vos, R.O. Accounting for forest carbon pool dynamics in product carbon footprints: Challenges and opportunities. *Environmental Impact Assessment Review*, 37: 23–36.
8. 2012. Xu, M., Weissburg, M., **Newell, J.P.**, & Crittenden, J. Developing a science of infrastructure ecology for sustainable urban systems. *Environmental Science & Technology*, 46(15): 7928-9.
7. 2012. Kim, J., Rahimi, M., & **Newell, J.P.** Life-cycle emissions from port electrification: A case study for the port of Los Angeles. *International Journal of Sustainable Transportation*, 6(6): 321–337.

6. 2011. **Newell, J.P.**, & Vos, R.O. Papering over space and place: Product carbon label modeling in the global paper industry. *Annals of the Association of American Geographers*, 101(4): 730–741.
5. 2010. Wolch, J., **Newell, J.P.**, Seymour, M., Bradbury-Huang, H., Reynolds, K., Mapes, J., & Brady, K. The forgotten and the future: Reclaiming back alleys for a sustainable city. *Environment and Planning*, 42: 2874–2896.
4. 2006. Jenerette, G., Marussich, W., & **Newell, J.P.** Linking ecological footprints with ecosystem valuation in the provisioning of urban freshwater. *Ecological Economics*, 59: 38–47.
3. 2005. Robinson, L., **Newell, J.P.**, & Marzluff, J. Twenty-five years of sprawl in the Seattle region: Growth management responses and implications for conservation. *Landscape and Urban Planning*, 71(1): 51–72.
2. 2003. Vandergert, P., & **Newell, J.P.** Illegal logging in the Russian Far East and Siberia. *The International Forestry Review*, 5(3): 303–6.
1. 1996. **Newell, J.P.**, & Wilson, E. The Russian Far East: Foreign direct investment and environmental destruction. *Ecologist*, 26(2): 68–72.

Manuscripts under review/in revision

4. Meerow, S. and **Newell, J.P.** The contested nature of urban resilience: for whom, what, when, where, and why?
3. Kim, O., Nugent, J.B., Yi, Z., **Newell, J.P.**, & Curtis, A. J., A novel application of geographically weighted regression in biogeography: A case study of latex yield from Xishuanghanna, Yunnan, China, *International Journal of Geographical Information Science*.
2. Borgman, M. & **Newell, J.P.**, Urban agriculture as equitable green infrastructure for the city of Detroit.

Manuscripts in preparation

4. Cousins, J.J. & **Newell, J.P.**, Urban political ecologies of and in the city, in *Handbook of Urban Geography*, eds. T. Schwanen and R. van Kempen. Edward Elgar Publishing. (Invited submission)
3. **Newell, J.P.**, Borgman, M., O’Gara, K., & Omeke, J. Footpaths of Detroit.
2. **Newell, J.P.**, Sachs D., Vos, R.O, & Fang A. Are forest products carbon neutral?
1. Kim, J.D., **Newell, J.P.**, & Rahimi, M. The carbon footprint of transportation: Shipping Barbie dolls from China to the U.S. through the Port of Los Angeles.

Books

2. 2004. **Newell, J.P.** *The Russian Far East: A Reference Guide for Conservation and Development*. McKinleyville, CA: Daniel & Daniel. 466 pages. Reviewed in *Conservation Biology*, *Eurasian Geography and Economics*, *Journal of Biogeography*, *Pacific Affairs*, *Polar Record*, *Progress in Physical Geography*, *Society & Natural Resources*, and *The Geographical Journal*.

1. 1996. **Newell, J.P.** & Wilson, E. *The Russian Far East: Forests, Biodiversity Hotspots, and Industrial Development*. Tokyo: Friends of the Earth-Japan. 204 pages.

Book Chapters

4. 2015. Lee, K., **Newell, J.P.**, Wolch, J.R., & Joassart-Marcelli, P. “Cows, climate, and the media,” In *Political Ecologies of Meat*, eds. J. Emel and H. Neo. New York: Routledge..
3. 2014. Keoleian, G., **Newell, J.P.**, Xu, M., & Dreps, E. “Sustainability strategies for consumer products in cities,” In *Sustainable Cities*, eds. D. Mazmanian and H. Blanco (Eds.). Edward Elgar.
2. 2007. **Newell, J.P.** “A sustainable development future?” pp. 274–285, In *Kamchatka: A Journal and Guide to Russia’s Land of Ice and Fire*, ed. D. Gleadhill. Hong Kong: Odyssey Publications.
1. 2006. **Newell, J.P.** “Timber in the Russian Far East and potential transborder conflict,” pp. 239–259, In *Russian Business Power: The Role of Russian Business in Foreign and Security Relations*, eds. A. Wenger, J. Perovi, and R. Orttung. New York: Routledge.

Refereed Conference Proceedings

10. 2015. Meerow, S. & **Newell, J.P.** Resilience and complexity: A bibliometric review and prospects for industrial ecology. *8th International Society for Industrial Ecology Biennial Conference*. University of Surrey, United Kingdom.
9. 2015. **Newell, J.P.** Globalized urban commodity teleconnections: Using big data to track corporate actors across time-space. *8th International Society for Industrial Ecology Biennial Conference*. University of Surrey, United Kingdom.
7. 2015. **Newell, J.P.** & Cousins, J. Developing a political-industrial ecology: The case of Los Angeles’s water supply metabolism. *8th International Society for Industrial Ecology Biennial Conference*. University of Surrey, United Kingdom.
6. 2013. **Newell, J.P.** & Cousins, J. Transdisciplinary pathways for urban metabolism research. *7th International Society for Industrial Ecology Biennial Conference*. University of Ulsan, Korea.
5. 2013. Pandit, A., Bras, B., Minne, E.A., Dunham-Jones, E., Augenbroe, G., Jeong, H., James, J.-A.C., **Newell, J.P.**, Weissburg, M., Brown, M.A., Chang, M.E., Xu, M., Begovic, M.M., Yang, P., Fujimoto, R.A., French, S.P., Thomas, V.M., Yu, X., Chen, Y., Lu, Z., & Crittenden, J.C. Infrastructure ecology: An evolving paradigm for sustainable urban redevelopment. *World Engineers Summit*. Singapore.
4. 2012. Willard, J., Garfinkle, J., Fang, A., & **Newell, J.P.** The energy and emissions burden of water: A spatially-explicit life cycle assessment of urban water consumption in southern California. *Proceedings of the 2012 IEEE International Symposium on Sustainable Systems and Technology*. Boston, MA.
3. 2011. Xu, M. & **Newell, J.P.** Infrastructure ecology: A conceptual model for understanding urban sustainability. *6th International Society for Industrial Ecology Conference*. Berkeley, CA.

2. 2011. Vos, R.O. & **Newell, J.P.** Geographical delimitation for carbon footprint modeling in the global paper industry. *6th International Society for Industrial Ecology Conference*. Berkeley, CA.
1. 2008. Madachy, R., Haas, B., Bradbury-Huang, H., **Newell, J.P.**, Rahimi, M., Vos R.O., & Wolch, J. Achieving sustainable development in southern California: Collaborative learning through systems dynamics modeling. *Proceedings of the 2008 International Council on Systems Engineering*.

Other Publications

9. 2012. Blanco, H., **Newell, J.P.**, Stott, L., & Alberti, M. Water supply scarcity in Southern California: Assessing water district level strategies. Los Angeles, CA: Center for Sustainable Cities, Price School of Public Policy, University of Southern California. 80 pages.
8. 2010. Vos, R. O., & **Newell, J.P.** “Dematerialization” in *Green Business*, ed. Paul Robbins, Nevin Cohen, and Geoffrey J. Golson, SAGE Publications: Thousand Oaks, CA.
7. 2009. Vos, R., & **Newell, J.P.** A comparative analysis of carbon dioxide emissions in coated paper production: Key differences between China and the U.S. Los Angeles, CA: USC Center for Sustainable Cities. 51 pages.
6. 2008. Cassidy, A., **Newell, J.P.**, & Wolch, J. Transforming alleys into green infrastructure for Los Angeles. Los Angeles, CA: USC Center for Sustainable Cities. 55 pages.
5. 2008. **Newell J.P.** & R. Vos. Environmental Analysis of Coated Paper Supply Chains: United States and China. Los Angeles, CA: USC Center for Sustainable Cities. 33 pages.
4. 2008. **Newell J.P.**, Madachy, R., Haas B., & H. Bradbury. Calculating the carbon emissions of a shipping container from China to U.S. Retailer. Los Angeles, CA: USC Center for Sustainable Cities. 28 pages.
3. 2008. **Newell, J.P.** & Kuru, G. Legal verification systems for wood supply between Russia and China. Gland, Switzerland: WWF-International. 78 pages.
2. 2007. **Newell J.P.** & F. Miller. Keep it legal: Best practices for keeping illegally harvested timber out of your supply chain. A Country Guide for Russia. Gland, Switzerland: WWF-International. 38 pages.
1. 2007. **Newell, J.P.**, Sister, C., Wolch, J., Swift, J., Ghaemi, P., Wilson, J., & Longcore, T. Creating parks & open space: Using the green vision planning toolkit 1.0. Los Angeles, CA: University of Southern California GIS Research Laboratory and Center for Sustainable Cities. 60 pages.

RESEARCH FUNDING

Externally Funded

\$69,242 *FEW Workshop: “Scaling Up” Urban Agriculture to Mitigate Food-Energy-Water Impacts.* National Science Foundation (NSF), 2015-2016. **PI: Joshua Newell.** Co-PIs: A. Ramaswami (U. Minnesota), J. Vandermeer (U. Michigan), G. Daigger (U. Michigan), N. McClintock (Portland State U.)

- \$12,000,000 *SRN: Integrated Urban Infrastructure Solutions for Environmentally Sustainable, Healthy and Livable Cities*. National Science Foundation (NSF), 2015-2019.
PIs: A. Ramaswami (U. Minnesota), P.J. Culligan (Columbia University), Y. Fan (U. Minnesota), B.S. Orlove (Columbia University), A.G. Russell (Georgia Institute of Technology)
Senior Personnel: **J.P. Newell** (U. Michigan), R. Felock (Florida State University), B. Bakshi (Ohio State University), K. Kockelman (UT – Austin), D. Zimmerle (Colorado State University), N. Botchwey (Georgia Institute of Technology)
- \$319,000 *Water Scarcity Risk for Global Trade Network*. National Science Foundation (NSF), 2014–2016.
PI: M. Xu (U. Michigan) Co-PI: **J.P. Newell** (U. Michigan)
- \$55,000 *Urban Forest Ecosystems as Equitable Green Infrastructure for the Detroit Region*. National Institute of Food and Agriculture (NIFA), 2014–2016.
PI: **J.P. Newell** (U. Michigan)
- \$60,000 *Comprehensive Planning for Resilient Communities in Michigan: Facing the Challenges of Climate Change*. Kresge Foundation (Land Information Access Association Subcontract), 2012–2015.
PI: R. Norton (U. Michigan) Co-PIs: **J.P. Newell** (U. Michigan), L. Larsen (U. Michigan)
- \$997,000 *Forested Land Cover and Land Use Change in the Far East of Northern Eurasia under the Combined Drivers of Climate and Socio-Economic Transformation*. National Aeronautics and Space Administration (NASA), 2012–2015.
PI: K. Bergen (U. Michigan) Co-PIs: **J.P. Newell** (U. Michigan), D. Brown (U. Michigan), H. Shugart (U. Virginia), T. Loboda (U. Maryland)
- \$217, 117 *Water Supply Scarcity in Southern California*. Haynes Foundation, 2010–2012.
PI: H. Blanco (U. Southern California) Co-PI: **J.P. Newell** (U. Michigan)
- \$53,866 *Towards Evidence-based Sustainable Communities*. The Urban Institute, 2009–2010.
PI: H. Blanco (U. Southern California) Co-PIs: **J.P. Newell** (U. Michigan), G. Guiliano (U. Southern California)
- \$89,341 *Moving Containers Efficiently with Less Impact: Dynamic Modeling and Decision-Support Architecture for Clean Port Technologies*. METRANS, a U.S. Department of Transportation (DOT) University Transportation Center, 2009–2010.
PI: **J.P. Newell** (U. Southern California)
Co-PI: M. Rahimi (U. Southern California)
- \$500,000 *Cities and Climate Change*. HSBC Bank, 2008–2011.
PI: G. Guiliano (U. Southern California, transfer from J. Wolch former PI)
Senior Project Personnel: **J.P. Newell** (U. Southern California)
- \$56,665 *Chinese Coated Paper Supply Chain Analysis*. Clean Agency, 2008–2009.
PI: R. Vos (U. Southern California)
Co-PI: **J.P. Newell** (U. Southern California)

Internally Funded

- \$5,760 *Urban Sustainability and Resilience Interdisciplinary Workshop*. Rackham Graduate School, University of Michigan, 2015-2016.
PI: **J.P. Newell** (U. Michigan)
- \$6,000 *Urban Sustainability and Resilience Interdisciplinary Workshop*. Rackham Graduate School, University of Michigan, 2014–2015.
PI: **J.P. Newell** (U. Michigan)
- \$25,612 *Tokyo's Urban Metabolism: From the Apartments of Kanto to the Forests of Siberia*. Center for Japanese Studies, 2014–2015.
PI: **J.P. Newell** (U. Michigan)
- \$60,000 *Innovatively Planning for Technological Innovation: Water, Infrastructure, and Sustainability*. University of Michigan (M-Cubed), 2013–2014.
PIs: **J.P. Newell** (U. Michigan), N. Love (U. Michigan), R. Norton (U. Michigan)
- \$200,000 *Integrated Energy-Economy-Environment (3E) Modeling for Clean Vehicle Development in China*. University of Michigan and Shanghai Jiao Tong University, 2012–2014.
PI: M. Xu (U. Michigan) Co-PIs: **J.P. Newell** (U. Michigan), S. Miller (U. Michigan)
- \$3,000 *On the Trail of the Global Russian Pine Tree*. Weiser Center Faculty Grant, University of Michigan, 2012–2013.
PI: **J.P. Newell** (U. Michigan)
- \$29,000 *Advancing the Science of Infrastructure Ecology by Exploring and Explaining Universal Regularities of Urban Sustainability Indicators*. School of Natural Resources and Environment, +University of Michigan, 2012–2013.
PI: M. Xu (U. Michigan) Co-PI: **J.P. Newell** (U. Michigan)
- \$6,000 *Transdisciplinary Platforms for Sustainable Urban Metabolism Research*. Rackham Spring-Summer Fellowship, University of Michigan, 2012.
PI: **J.P. Newell** (U. Michigan)
- \$20,000 *Integrated Assessment of Infrastructure Greening within Detroit for Improved Sustainable Transportation, Water Quality, and Health*. Graham Institute, University of Michigan, 2011–2012.
PI: J. Kelly (U. Michigan) Co-PIs: **J.P. Newell** (U. Michigan), M. Xu (U. Michigan)
- \$20,000 *Research Roadmap for Urban Sustainability*. School of Natural Resources and Environment, University of Michigan, 2011–2012.
PI: **J.P. Newell** (U. Michigan) Co-PI: M. Xu (U. Michigan)
- \$12,000 *Comparative Urban Scale Greenhouse Gas Inventories: Beijing and Los Angeles*. US-China Institute, 2010–2011.
PI: H. Blanco (U. Southern California) Co-PI: **J.P. Newell** (U. Southern California)
- \$6,000 *The Greening of Paper: Emergence of Corporate Social Responsibility along a Supply Chain?* Center for Effective Organizations, University of Southern California, 2008.

PI: **J.P. Newell** (U. Southern California)

SCHOLARLY PRESENTATIONS (sole presenter, unless otherwise noted)

Invited Talks

- 2015 “A Political-Industrial Ecology of Water Supply for Los Angeles.” *School of Sustainability Seminar Series*, Arizona State University, Tempe, AZ. April 12.
- 2015 “A Political-Industrial Ecology of Water Supply for Los Angeles.” *The Architectural League of New York and Cooper Union Institute for Sustainable Design’s Five Thousand Pound Life: Water Symposium*, New York, NY. February 7.
- 2014 “Extending Urban Metabolism: A Political-Industrial Ecology of Water Supply for the City of Los Angeles.” *CUAHSI 2014 Biennial Colloquium on Water Science and Engineering*, Sheperdstown, West VA. July 28.
- 2014 “Mapping Detroit’s Hidden Geographies: Gardens and Footpaths.” *Detroit Future City*, Detroit, MI. July 7.
- 2014 “LCLUC Synthesis: Forested Land-Cover and Land-Use Change in the Russian Far East & Central Siberia Under the Combined Drivers Of Climate and Socio-Economic Transformation,” with K. Bergen, D. Brown, S. Hitztaler, T. Loboda, G. Sun, H. Shugart, J. Shuman, and O. Krankina. *NASA Land-Cover/Land-Use Change Program Annual Meeting*, Rockville, MD. April 23.
- 2013 “Reshaping the Water Supply Metabolism for Southern California in the Face of Climate Change.” *Regional Studies Association North American Conference*, Los Angeles, CA. December 17.
- 2013 “LCLUC Synthesis: Forested Land Cover and Land Use Change in the Far East of the Northern Eurasia Under the Combined Drivers of Climate and Socio-Economic Transformation,” with K. Bergen, T. Loboda, H. Shugart, G. Sun, D. Brown, J. Shuman, O. Krankina, and S. Hitztaler. *NASA Land-Cover/Land-Use Change Program Annual Meeting*, Rockville, MD. April 2.
- 2013 “Sustainability Planning for a Spatial and Equitable Urban Metabolism.” University of California, Berkeley, CA. February 14.
- 2012 “LCLUC Synthesis: Forested Land Cover and Land Use Change in the Far East of the Northern Eurasia Under the Combined Drivers of Climate and Socio-Economic Transformation,” with K. Bergen, V. Kharuk, T. Loboda, H. Shugart, G. Sun, D. Brown, J. Shuman, O. Krankina, and S. Hitztaler. *NASA Land-Cover/Land-Use Change Program Annual Meeting*, Rockville, MD. April 3.
- 2011 “Interdisciplinary Pathways for Urban Metabolism Research.” *American Geophysical Union Annual Meeting*, San Francisco, CA. December 8.
- 2010 “Comparative Urban-Scale Greenhouse Gas Inventories: Beijing and Los Angeles.” Tsinghua University, Beijing, China. September 19.

- 2009 “Measuring the Carbon Footprints of Cities, Products, and Processes.” *USC Energy Institute Annual Retreat*, University of Southern California, La Canada Flintridge, CA. November 13.
- 2009 “Moving Containers Efficiently and with Less Impact: Stakeholder Collaboration for Sustainability in Goods Movement.” *3rd METRANS National Urban Freight Conference*, Long Beach, CA. October 21.
- 2008 “Process Carbon Footprinting: A Shipping Container from the Pearl River Delta to New Jersey.” *World Ports Climate Initiative Symposium, International Association of Ports and Harbors*, Los Angeles, CA. November 25.
- 2008 “Greening Trade from Within: Policy Recommendations for the Next U.S. Administration.” *One Earth, One Dream Conference, Endangered Planet Foundation*, Laguna Beach, CA. October 4.
- 2008 “The Russian-Chinese Timber Trade: Traveling with the Timber, Customs Loopholes, and Strategies to Reduce Illegal Trade.” *China Customs Conference, Chinese State Customs Administration*, Harbin, China. July 8.
- 2008 “Russia’s Changing Forestry Landscape: The Forest Code, Tariffs, Timber Production and Certification.” *China Customs Conference, Chinese State Customs Administration*, Harbin, China. July 7.
- 2008 “Rescaling Urban Sustainability.” *Seminar Series*, Hunter College, New York, NY. May 2.
- 2008 “Challenges for Sustainable Timber Supply: Strategies to Reduce Complexity, Increase Transparency, and Encourage Legality.” *Developing Markets for Certified Forest Products for China, China State Forest Administration*, Chinese Academy of Forestry, WWF, Rainforest Alliance, The Nature Conservancy, and Rainforest Alliance, Beijing, China. April 2–3.
- 2006 “The Emergence of ‘Buyer-Driven’ Global Commodity Chains: A Framework for ‘Ethical’ Consumption? A Case Study of IKEA’s Furniture Commodity Chain.” *Center for Russian, East European, and Eurasian Studies*, University of Texas at Austin. October 16.
- 2006 “Chain of Custody Tracking in the Russian Forest Sector.” Beijing Forestry University, Beijing, China. April 12.
- 2004 “Environmental Issues in the Russian Far East.” *Russia in Asia—Asia in Russia: Energy, Economics, and Regional Relations*, Kennan Institute, Woodrow Wilson International Center for Scholars, Washington, DC. July 22–23.
- 2004 “Business, Environmental Security, and Foreign Economic Relations in the Russian Far East,” with M. Bradshaw, at the *Center for Security Studies*, Swiss Federal Institute of Technology, Zurich, June 23–24.

Sessions Organized or Chaired

- 2015 “Can We Achieve Sustainability in a Capitalist System?” *SNRE Doctoral Students’ Speaker Event*. Panel organizer and chair: **J.P. Newell**; Panelists: P. Robbins, University of Wisconsin-Madison; A. Agrawal, University of Michigan; A. Hoffman, University of Michigan; S. Moore, University of Wisconsin-Madison. University of Michigan. October 1.
- 2015 “Theorizing Political-Industrial Ecology.” *Association of American Geographers 2015 Annual Meeting*. Panel organizer and chair: **J.P. Newell**; Panelists: D. Gibbs, University of Hull; S. Pincetl, UCLA; J. Cousins, University of Michigan; L. Bergmann, University of Washington; S.E. Friedberg, Dartmouth College; J. Baka, London School of Economics. Chicago, IL. April 21.
- 2015 “Geographies of Resilience [I, II, III].” *Association of American Geographers 2015 Annual Meeting*. Presentation organizers: **J.P. Newell**, S. Meerow, E. Boyd; Chair: S. Meerow. Chicago, IL. April 21. *Three Sessions*.
- 2014 “Urban Natures: Infrastructure, Ecology, and the ‘Resilient’ City [I, II, III].” *Association of American Geographers 2014 Annual Meeting*. Presentation organizers: **J.P. Newell**, J. Cousins; G. Simon, University of Colorado Denver; Chair: J. Cousins; Panelists: S. Meerow, University of Michigan; M. Stults, University of Michigan; S. Dooling, University of Texas; V.K. Turner, Kent State University. Tampa, FL. April 12. *Three Sessions*.
- 2014 “Understanding Resilience.” *Association of American Geographers 2014 Annual Meeting*. Presentation organizers: **J.P. Newell**, S. Meerow; Chair: S. Meerow. Tampa, FL. April 10.
- 2014 “The Rise of Environmental Interdisciplinarity: Articulating Space for Human-Environment Geography.” *Association of American Geographers 2014 Annual Meeting*. Panel organizers: **J.P. Newell**; G. Simon, University of Colorado Denver; Chair: G. Simon; Panelists: **J.P. Newell**, D. Liverman, U. Arizona; D. Demeritt, King’s College London; R. Neumann, Florida International University; Discussants: P. Robbins, U. Wisconsin. Tampa, FL. April 10.
- 2013 “Sustainable and Resilient Urban Infrastructure for the Next 100 Years.” *Sustainable Systems Forum*. Presentation organizer: **J.P. Newell**; Panelists: C. Kennedy, University of Toronto; J. Crittenden, Georgia Tech. University of Michigan, Ann Arbor, MI. November 8.
- 2013 “Social Science in Life Cycle Assessment.” *7th International Society for Industrial Ecology Biennial Conference*. Session Chair: **J.P. Newell**. University of Ulsan, Korea. June 27.
- 2013 “Revisiting Theories of Urban Metabolism.” *Association of American Geographers 2013 Annual Meeting*. Presentation organizer: **J.P. Newell**; Chair: S. Pincetl, University of California; Panelists: **J.P. Newell**; M. Chester, Arizona State University; E. Rappoport, University College London, and D. Pataki, University of Utah. Los Angeles, CA. April 13.
- 2013 “The World in 2050: Four Forces Shaping our Northern Future.” *Association of American Geographers 2013 Annual Meeting*. Presentation organizer, chair, and

introducer: **J.P. Newell**; Keynote: Larry C. Smith, University of California-Los Angeles. Los Angeles, CA. April 10.

2010 “Creating Unruly Specialty Groups.” *American Association of Geographers 2010 Annual Meeting*. Organizer and Panelist: **J.P. Newell**. Washington, DC. April 4.

Conference Paper, Panel, and Poster Presentations

- 2015 “LCLU Synthesis: Forested Land-Cover and Land-Use Change in the Far East and the East Siberia of Northern Eurasia under the Combined Drivers of Climate and Socio-Economic Transformation,” with K. Bergen, T. Loboda, H. Shugart, **J.P. Newell**, J. Shuman, D. Brown, G. Sun, S. Hitztaler, W. Poon and A. Hall. Poster presentation at the *NASA Carbon Cycle and Ecosystems Joint Science Workshop 2015*, College Park, MD. April 20.
- 2015 “Globalized Urban Commodity Teleconnections: Tracking Corporate Actors across Time-Space.” *Association of American Geographers 2015 Annual Meeting*, Chicago, IL. April 21.
- 2015 “Globalized Urban Commodity Teleconnections: Using Big Data to Track Corporate Actors across Time-Space.” *Political Ecology Working Group’s Dimensions of Political Ecology Conference*, University of Kentucky, Lexington, KY. February 27.
- 2015 “Just Green Enough III: ‘Just Green Enough’ and Beyond Wrap-Up Panel.” Discussant: **J.P. Newell**. *Association of American Geographers 2015 Annual Meeting*, Chicago, IL. April 21.
- 2015 “Geographic Perspectives on Urban Sustainability.” Panelist: **J.P. Newell**. *Association of American Geographers 2015 Annual Meeting*, Chicago, IL. April 21.
- 2014 “Extending Urban Metabolism through a Political-Industrial Ecology of Water Supply Infrastructure for Los Angeles,” with J. Cousins. *2nd International Urbanization and Global Environmental Change: Urban Transitions and Transformations Conference*, Taipei, Taiwan. November 6–8.
- 2014 “Towards a Metabolism of the Urban Ecosystem,” with J. Cousins. Poster Presentation at *The 2014 Gordon Research Conference on Industrial Ecology*, Lucca (Barga), Italy. June 2–5.
- 2014 “Mapping Detroit’s Hidden Social Geographies,” with G. Anderson, J. Shapiro, and M. Borgman. Poster Presentation at *UROP Program Symposium*, University of Michigan, Ann Arbor, MI. April 23.
- 2014 “Synthesis of Long-Term Datasets and Trends and Variation of Landscape LCLUC Across the Russian Far East and Central Siberia,” with K. Bergen, T. Loboda, G. Sun, O. Krankina, Y., Blam, L. Cui, J. Estrada, A. Hall, S. Hitztaler, T. Johnson, K. Park, Y. Wang, Y.C. Wang, and X. Wen. Poster Presentation at *NASA Land-Cover/Land-Use Change Program Annual Meeting*, Rockville, MD. April 23.
- 2014 “Theories of Urban Metabolism and Prospects for Interdisciplinary Scholarship,” with J. Cousins. *Association of American Geographers 2014 Annual Meeting*, Tampa, FL. April 12.

- 2013 “Innovatively Planning for Technological Innovation: Water, Infrastructure, and Sustainability,” with N. Love, and R. Norton. Poster Presentation at *MCubed Symposium: The Case for the Cube: How Real-time Seed Funding Grows Innovation*, University of Michigan, Ann Arbor, MI. November 15.
- 2013 “Mapping Detroit’s Hidden Social Geographies,” with J. Omeke, and M. Borgman. Poster Presentation at *SROP Program Symposium*, University of Michigan, Ann Arbor, MI. July 25.
- 2013 “Transdisciplinary Pathways for Urban Metabolism Research,” with J. Cousins. Poster Presentation at *7th International Society for Industrial Ecology Biennial Conference*, University of Ulsan, Korea. June 25.
- 2013 “Transdisciplinary Pathways for Urban Metabolism Research,” with J. Cousins. *Association of American Geographers 2013 Annual Meeting*, Los Angeles, CA. April 13.
- 2011 “Infrastructure Ecology: A Conceptual Model for Understanding Urban Sustainability,” with M. Xu. *6th International Society for Industrial Ecology Conference*, Berkeley, CA. June 7–10.
- 2011 “Geographical Delimitation for Carbon Footprint Modeling in the Global Paper Industry,” with R.O. Vos. *6th International Society for Industrial Ecology Conference*, Berkeley, CA. June 7–10.
- 2011 “The Forgotten and the Future: Reclaiming Back Alleys for a Sustainable City.” *American Association of Geographers Annual Meeting*, Seattle, WA. April 12.
- 2011 “Twenty-Plus Years of Transformation: Reflections on “Post”-Socialism across Eurasia.” Panelist: **J.P. Newell** *American Association of Geographers Annual Meeting*, Seattle, WA. April 12.
- 2010 “Papering over Space and Place: Fuzzy Accounting and Flat Geographies in Carbon Footprints.” *American Association of Geographers Annual Meeting*, Washington, DC. April 4.
- 2009 “Corporate Power, Consumption, and Governance along the Russian Timber Trail.” *American Association of Geographers Annual Meeting*, Las Vegas, NV. March 23.
- 2009 “Factors Predicting the Capacity of Los Angeles City-Region Recreation Programs to Promote Energy Expenditure,” with K. Reynolds, N. Dahmann, J. Wolch, P., Joassart-Marcelli, G. Dunton, and M. Jerrett. Poster Presentation at *Robert Wood Johnson Active Living Research Conference*, San Diego, CA. February 19.
- 2007 “Furniture, Self-Certification, and the Consumer Imaginary: Sourcing IKEA’s Wood Supply in Siberia.” *American Association of Geographers Annual Meeting*, San Francisco, CA. April 19.
- 2005 “Consumption and Power Relations in Wood Commodity Networks.” *American Association of Geographers Annual Meeting*, Denver, CO. April 6.

- 2004 “The Same Old Story: Tensions between Environment and Economy in the Post-Soviet Far East.” *American Association for the Advancement of Slavic Studies Annual Meeting*, Boston, MA. December 4–7.
- 2004 “Environment-Economic Linkages in Eastern Russia.” *American Association for the Advancement of Science (AAAS) – Arctic Division Annual Meeting*, Anchorage, AK. September 29.
- 2004 “The Russian Far East: A Resource Cursed Region?” *Siberia and the Russian Far East: Past, Present, Future, The 10th British Universities Siberian Studies Seminar (BUSS): A Multidisciplinary International Conference*, University of Houston, Houston, TX. April 7–11.

University of Michigan/University of Southern California Campus Talks

- 2015 “Studying Politics at Michigan.” *Misfit Politics Conference*, University of Michigan. April 10.
- 2013 “Civic Engagement, Activism, and the Environment.” *SNRE Faculty and Alumni Panel Discussion*, University of Michigan. April 16.
- 2013 “Water, Infrastructure, and Sustainability.” *CSS External Advisory Board Meeting*, University of Michigan. March 11.
- 2012 “China’s Urban Ecological Shadow? Contextualizing Resource Flows from Russia’s Forests.” Noon Lecture, *Center for Russian, East European, and Eurasian Studies*, University of Michigan. March 7.
- 2011 “Urban Form, Resource Flows, and Equity Issues in a Sustainable City.” *Annual Meeting of Center for Sustainable Systems*, University of Michigan, March 16.
- 2010 “Urbanization in China: Challenges, Trends, and Opportunities.” *Michigan-China Clean Tech Conference*, University of Michigan. December 10.
- 2010 “How I Became an Urbanist.” *Sustainable Systems Alive Seminar*, University of Michigan. December 9.
- 2010 “Urban-Scale Greenhouse Gas Inventories: What Goes in and What Stays Out?” *Erb Institute for Sustainable Enterprise Colloquium*, University of Michigan. October 25.
- 2010 “Water-Energy-Climate Nexus: Implications for Energy Policy.” *USC Water Retreat*, University of Southern California. April 2.
- 2010 “Carbon Footprints and the Shaping of Public Policy.” *METRANS and Center for Sustainable Cities Seminar*, University of Southern California. March 11.
- 2009 “The ‘Greenness’ of Trade: Commodities in the Global Economy.” *University of Southern California Reunion Weekend ’09*, University of Southern California. October 23.
- 2009 “What do We Mean by ‘Green’ and for Whom?” *Cities and Climate Change: A Solutions-Oriented Conference*, University of Southern California. April 30.

TEACHING

Courses at the University of Michigan

Urban Sustainability (Fall 2015, 20; Fall 2014, 20 students)

Department/Unit: SNRE

This course introduces graduate students to the emerging field of urban sustainability from multiple disciplinary perspectives, primarily industrial ecology, urban political ecology, urban ecology, and planning. The course provides students with the theoretical and methodological tools in which to explore the potential for a sustainable urbanism. Approaches to foster more sustainable and resilient forms of urbanization and urban life—ranging from localization, to industrial symbiosis, to ecological restoration—will be introduced and evaluated. There is a focus on experiential learning, with two site visits to Detroit during which students are asked to view the city from varying disciplinary viewpoints, frameworks, and methodological approaches.

Sustainability and Society (Fall 2015, 75 students; Fall 2014, 75 students; Winter 2014, 45 students; Winter 2013, 47 students; Winter 2012, 51 students)

Department/Unit: Program in the Environment (Undergraduate)

Course serves as required core for the UM sustainability minor. In first year of offering, students came from 18 different majors. Course provides students with a broad, interdisciplinary understanding of sustainability in society—establishing a platform from which to further research, study, and practice it. Students connect sustainability to real-world challenges, evaluate its claims, develop knowledge to participate in sustainability debates, and identify novel pathways towards a more sustainable society.

Environmental Assessment (Winter 2013, 157 students; Winter 2012, 134 students; Winter 2011 169 students)

Department/Unit: SNRE

This required course in the SNRE Master of Science program provides students with an opportunity to integrate knowledge and tools from the natural and social sciences and engineering in support of broader goals of sustainability, in both management and policy arenas. For the Winter 2012 offering, I completely redesigned the course, dividing divided into a series of interdependent modules, each led by SNRE faculty with expertise in a particular assessment “family.”

Courses at the University of Southern California

Sustainability Science and Society (2010)

Sustainability theory, analytic tools and solutions. Focus on urbanization, climate change, ecosystem appropriation, resource exploitation and consumption. Role of sustainability science in public policy. Undergraduate general education course.

Research Methods in Geography (2009)

Co-taught methodological approaches found within the subfields of Geography, with focus on two broad areas of research: 1) sustainability and urban environments and 2) Geographic Information Science. Graduate seminar.

Sustainable Cities (2008)

Exploration of environmental problems linked to urbanization, drawing on historical analysis, social theory, scientific research, and city planning design/practice. Alternative policy options for urban sustainability. Graduate course.

Food, Fashion and Furniture: Commodities in the Global Economy (2008)

Study of how everyday things—the food we consume, the clothes we wear, the furniture we sit on—intertwine urban dwellers with distant people, places, and spaces. Provides theoretical and methodological approaches to understand how commodity chains and networks are perpetually reconfigured by processes of globalization and the role of urban consumer. Graduate seminar.

Courses at the University of Washington**Introduction to Interdisciplinary Urban Ecology (2004)**

Examined nature-society interactions in urban settings from an interdisciplinary framework, drawing on relevant principles from ecology, geography, economics, history, urban studies and public policy. Course includes case studies of environmental problems and solutions in urban areas.

STUDENTS AND RESEARCHERS SUPERVISED**Doctoral committee chair**

- 2012–Present Sara Meerow, Ph.D. candidate, SNRE, University of Michigan
 2011–Present Joshua Cousins, Ph.D. candidate, (SNRE), University of Michigan
 2013 Oh Seok Kim, Ph.D., Department of Geography, University of Southern California,
 Current Position: Research Fellow, Korea Environment Institute, *A spatially explicit approach to measuring carbon dynamics for reducing emissions from deforestation and forest degradation: A case study of Chinese forests.*

Doctoral examination committee

- 2015 Lucy Kim, SNRE, University of Michigan. *Disproportionate impacts of hazardous waste facilities in Los Angeles County: A deeper look into immigrant populations and the environment.*

Master's thesis committee chair/co-chair/committee

- 2014 Yu Feng, M.S., SNRE, University of Michigan. *Finding critical intermediate demand and final consumption of Russian wood: An input-output approach.*
 2014 Timothy Johnson, M.S., SNRE, University of Michigan. *Improvements in Landsat land-cover change results using time series classifications and multi-temporal land-cover classification and accuracy comparison using a rule-based logic: A case study in southern Primorsky Krai, Russia.*
 2014 Jose Solis, M.S., SNRE, University of Michigan. *Green Economy Plan for the City of Houston.*
 2013 Kwangkeun Park, M.A., CREES, University of Michigan. *A spatial-temporal analysis (1975-2009) of the timber industry in the Russian Far East and Siberia.*

M.S. student general advising

Serve as general advisor for ~10 M.S. students per academic year

Master's projects advising

- 2012–2013 Green Infrastructure Analysis, Design, and Application in Detroit's Lower East Side (5 students, co-advisor)
 2011–2012 Michigan Green Communities Challenge (6 students)
 2011–2012 Sustainable Huron-Clinton Metroparks (5 students, co-advisor)

Undergraduate researchers supervised

Garrett Anderson, UROP, 2013–2014

Jacob Shapiro, UROP, 2013–2014

PROFESSIONAL SERVICE AND MEMBERSHIP

National and International Service

- 2012–2014 Chair, Human Dimensions of Global Change Specialty Group of the Association of American Geographers (AAG)
- 2010–2013 Treasurer, Energy and Environment Specialty Group of the AAG
- 2010–2015 Treasurer, Russian and Eastern European Specialty Group of the AAG
- 2013 Technical Committee, International Society for Industrial Ecology (ISIE) Conference
- 2011–2015 Founding Board Member, Life Cycle Sustainability Assessment Section, International Society for Industrial Ecology (ISIE)

Promotion/Tenure Reviewer

- 2014 University of Southern California

Journal Reviewer

Action Research, Annals of the Association of American Geographers, Antipode, Energies, Energy Policy, Environment and Planning D, Environmental Research Letters, Environmental Science & Technology, Eurasian Geography and Economics [3], Geoforum, International Journal of Water Resources Development, Journal of Industrial Ecology [3], Journal of Urban Affairs, Landscape Ecology, Landscape and Urban Planning [2], Transactions in GIS, Transactions of the British Institute of Geographers

Book Reviewer

Urban Climate Assessment Report, U.S. National Climate Assessment

Proposal Reviewer

National Science Foundation (NSF) Geography and Spatial Sciences Program, NSF Environmental Biology Program (CAREER), University of Michigan Dow Fellows Doctoral Program

University of Michigan Service

- 2015 Reviewer, Dow PhD Sustainability Fellowships, Graham Institute, University of Michigan
- 2014–2015 Member, Master's Project Selection Committee, SNRE
- 2014–2015 Member, Integrated Assessment Faculty Search Committee, SNRE
- 2014 Faculty, SNRE Orientation at University of Michigan Biological Station
- 2013–2014 Research Sponsor, Undergraduate Research Opportunity Program
- 2013 Research Sponsor, Summer Research Opportunity Program
- 2013 Member, SNRE Review Committee, NRE 580
- 2012 Member, SNRE PiTE Task Force
- 2012 Member, SNRE Future Faculty Hire Proposals
- 2011–Present Co-coordinator SNRE Urban Planning Dual-Degree Program
- 2011 Reviewer, PiTE Graduate Student Instructor Selection Committee
- 2011 Co-author, Sustainable Urban Water Systems Interdisciplinary Cluster Hire Proposal
- 2011 Co-author, Water Resources and Sustainability Science Cluster Hire Proposal
- 2011 Member, University Research Corridor Water and Landscape Conference Steering Group
- 2010–Present Faculty Associate, Center for Russian, East European, and Eurasian Studies

2010–Present Faculty Affiliate, PiTE
 2010–Present Faculty Affiliate, Erb Institute
 2010–Present Core Faculty, Center for Sustainable Systems
 2010–Present Member, Program in the Environment (PiTE) Advisory Committee
 2010–2011 Co-author, Undergraduate Sustainability Minor
 2010–2011 Faculty, SNRE Orientation at University of Michigan Biological Station
 2010 Member, Doris Duke Fellowship Selection Committee
 2010 Member, Wyss Fellowship Selection Committee

Community Service

2013 Member, Detroit Workers for Environmental Justice Water Infrastructure Working Group
 2011–Present Board Member, California Center for Sustainable Communities

Media Coverage

2015 University of Michigan, *University Record*, “U-M Part of New Network to Build Sustainable, Livable Cities,” August
 2015 University of Michigan News, “U-Michigan Part of New Network to Build Sustainable, Livable Cities,” August
 2014 Next City, *Science of Cities*, “Making Alleys a Place for Play (Not Just Old Couches),” November
 2014 Next City, *Science of Cities*, “Pretty Park, Affordable Neighborhoods ‘Just Green Enough,’ July.
 2014 Michigan Radio, *Stateside*, “Turning Urban Wasteland into Productive Green Space in Detroit,” February.
 2014 University of Michigan, *University Record*, “Turning Vacant Land into Productive Green Space,” January.
 2012 University of Southern California News, “Carbon Footprint Labels Inaccurate, USC Study Finds,” November.
 2012 University of Michigan SNRE, *Stewards*, “Advancing the Science of Infrastructure Ecology by Exploring and Explaining Universal Regularities of Urban Sustainability Indicators,” Fall issue.
 2012 University of Michigan SNRE, *Stewards*, “Plugging in L.A. Ports,” Spring issue.
 2011 University of Michigan SNRE, *Stewards*, “How Green is Your Alley?” Spring issue.
 2010 Metrans News, “Commodity Chain Consequences,” November.

RELATED WORK EXPERIENCE

1996–2008 Consulting
 2006–2008 WWF-International, WWF-China, WWF-Russia, WWF-US — Writing reports & wood supply chain tracking (U.S. \$85,000)
 2007 Helveta, Inc. — Designing GPS tracking systems for the Russian-Chinese softwood trade (U.S. \$15,000)
 2006 Kingfisher Asia Limited — Research on sourcing legal Russian oak sawnwood
 2006 Minnesota Zoo — Research for exhibit on flora and fauna of Russian Far East
 2005, 2008, 2009 Borealis Consulting — Field research (Russia, China, Japan) and report writing
 2003–2005 Forest Monitor, Ltd. — Field research (Russia, China) and report writing

2003	Foundation for Russian American Economic Cooperation — Cartography
2001	U.S. Park Service — GIS analysis and metadata architecture
1999	CNN — Trip arrangement (Russia)
1999	Institute for Global Environmental Strategies — Field research (Japan, Russia)
1998	Asahi Shimbun Newspaper — Trip arrangement (Russia)
1997–1998	Hewlett Foundation — Research and writing of report on Republic of Korea
1997	United Nations Development Programme — Roster of Environmental Experts, Republic of Korea
1996–1999	Global Environmental Forum of Japan — Research (Japan, China, Russia)
1996	CBS News — Trip arrangement (Kamchatka, Russia)
1996	Eco-Asia — International Secretariat
1996	Environment Ministry of Japan — Field research (Japan, Russia) and report writing
1994–2000	Program Director, Friends of the Earth-Japan (NGO) Tokyo and Vladivostok

Managed four staff (Japanese, Russian, and British) and administered annual program budget of \$300,000. Enjoyed successful fundraising track record with donor community: U.S. and Japanese foundations, governments, and international aid agencies. Worked to reform environmental and development policies of the Japanese and Russian governments, bilateral and multilateral development banks including Japan Bank for International Cooperation (JBIC), World Bank and European Bank for Reconstruction and Development, and the private sector (oil and gas, timber, construction, and mining). Campaigned for environmental and social causes at international forums, conventions, and meetings including Kyoto Climate Change Conference [COP-3] (1997), UNGASS [Rio + 5] (New York, 1997), G-7/G-8 meetings (Tokyo, 1993; Denver, 1997), and Seattle WTO Meeting (1999). Organized two international conferences in Russia on biodiversity conservation (Vladivostok, 1995; Yakutsk, 1998).

FOREIGN LANGUAGES

Intermediate Japanese and Russian

MEMBERSHIP

Association of American Geographers
 International Society for Industrial Ecology
 American Geophysical Union
 American Association for the Advancement of Slavic Studies

HONORS AND AWARDS

2013–2014	Golden Apple Award Finalist, University of Michigan, 2013–2014
2005–2006	Foreign Language and Area Studies (FLAS) Fellowship, Russian and International Studies
2005	FLAS Fellowship, Russian Studies
2002–2005	National Science Foundation (NSF) Integrated Graduate Education, Research, and Training (IGERT) Fellowship
2005 & 2006	Rachel Woods Award, College of Forest Resources, University of Washington
2005 & 2006	Urban Ecology IGERT Disciplinary Award

- April 2004 *The Russian Far East* (2004) recognized as Book of the Month, Soyuz:
Postcommunist Cultural Studies Association, American Anthropological
Association.
- 2000–2002 University of Washington Tools for Transformation Fellowship

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