

# Justin VanderBerg

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Adelaide, SA, Australia  
 State College, PA, USA

[www.EnDevGeographic.com](http://www.EnDevGeographic.com)

## Professional Experience

2020-pres. *Adjunct Faculty*: The Pennsylvania State University  
**University Park, PA.** *Specializing in Geography the Global Economy, Intensive Writing, with emphasis on Climate Change and Urban Sustainability*

2013-pres. *Geographic Consultant, International Development Specialist*: **EnDev Geographic**  
 Locations: **Myanmar, Mongolia, Lao PDR, Afghanistan, Australia, U.S., & others**  
 NGO Funding Agencies: **DFID, DFAT, DIPECHO, ICI, & USDOD**

**Responsibilities include** using GIS to model the impacts of sustainable, environmental projects, and economic policies and utilizing advanced spatial technology in disaster risk reduction and climate change adaptation: **Specialization**: Urban Heat Mapping, Climate Change Risk and Vulnerability Assessments, Data Processing, Webmapping.

## **Project List (selected of 48 contracts):**

- **Climate Change Vulnerability Assessment Global Strategy: RARE Conservation – Global**  
 2018-20: Program development and technical guidance for global initiative.
  - **Kingston Urban Cooling Strategy: City of Kingston, VIC, AUS**  
 2019: Satellite, climate, & CRC modeling to evaluate cooling options and strategy.
  - **Canada Bay Urban Forest Strategy: City of Canada Bay, NSW, AUS**  
 2019: Thermal and imagery analyses to prioritize urban forest investment.
  - **Global Monitoring and Evaluation Strategy: RARE Conservation – US/Global**  
 2018: Data-focused program develop. and technical guidance for global initiative
  - **Climate Change Vulnerability and Risk Assessment: UNICEF – Myanmar**  
 2016/17: National township-level assessment for child-centred policy development.
  - **Urban Heat Mapping – Western Adelaide Region: City of Adelaide – Australia**  
 2017: Thermal and soc. vuln. analysis of urban heat islands over 500km<sup>2</sup>.
  - **Mapping SA's Renewable Energy Potential: State of South Australia – Australia**  
 2016, Dec: Mapping wind and solar potential and energy infra. across SA.
  - **Environmental and Sub-National Conflict Mapping: The Asia Foundation – Myanmar**  
 2016: Spatial analysis and mapping of vulnerability in conflict areas.
  - **UAV Mapping Mongolia: The Asia Foundation – Mongolia**  
 2014: High tech data acquisition/analysis for resource allocation and sust. dev.
- 2008-2009 *Wellsite Geologist*: Epoch Well Services Alaska  
**Arctic, Alaska, USA.** *In remote Arctic locations, I led project management, environmental sampling, monitoring & eval. on active drilling platforms.*
- 2006-2008 *GIS Spatial Analyst*: Michigan Department of Natural Resources  
**Lansing, Michigan, USA.** *Beginning as an intern, I became an analyst digitizing, managing databases, and delivering sustainable NRM projects.*
- 2007 *Researcher*: NSF Research Experience for Undergraduates: Drs. Mark Swanson and Matthew Bampton, **University of Southern Maine, USA**  
*I executed novel research on glacial modeling leading to conference pres..*
- 2006 *GIS Intern*: U.S. Dept. of Agriculture - National Forest Service  
**Huron Manistee National Forest, Michigan, USA.** *Data, analysis, cart.*

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## Education

The Pennsylvania State University, University Park, PA

- **Ph.D.**, Geography, December 2013. Dissertation Title: Modeling Arctic Climate Change Impacts on Access, Land Value, and Development. Advisor: **Dr. Bill Easterling, III**.
- **M.S.**, Geography, December 2010. Thesis Title: Characterizing the Supraglacial Hydrological Environment of Western Greenland. Advisor: **Dr. Derrick Lampkin**

Michigan State University, East Lansing, MI

- **B.S.**, Environmental Geoscience, December 2007
    - Specialization in Geographic Information Science (GIS)
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## Teaching/Training Experience (selected of 13)

2020	<i>Instructor</i> – Geography of the Global Economy – PSU GEOG 424w (F20)
2016	<i>Organizer</i> – Disaster Risk Management Workshop – FAO – Lao PDR.
2015	<i>Instructor</i> – GIS Field Applications for Data Mgmt. – UNDP – Vientiane, Lao PDR.
2015	<i>Instructor</i> – National GIS Vulnerability Mapping and Analysis – FAO – Lao PDR.
2015	<i>Instructor</i> – Advanced GIS Analysis – The Asia Foundation – UB, MG.
2013	<i>Teaching Assistant</i> – Sustainability – PSU GEOG 030 Web (SP12)
2012	<i>Teaching Assistant</i> – Economic Geography – PSU GEOG 126 (SP & FA12)
2010	<i>Guest Lecturer</i> – Global Climate Modeling - PSU GEOG 010

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## Publications (selected of 14)

- Siebentritt, M., **J. VanderBerg**, A. Brannon, & P. Stoller (2019) Cooling benefits of living turf Technical Report. *Horticulture Innovation Australia*
  - Seibentritt, M., **VanderBerg, J.**, C. Urich, & C. Dotto (2019) City of Kingston Urban Cooling Strategy. *SEED Consulting Services and City of Kingston, Victoria, Australia*.
  - **VanderBerg, J.**, et al. (2017) UNICEF's Child-Centred Risk Assessment of Myanmar. *United Nations Children's Fund Disaster Risk Management Team*.
  - **VanderBerg, J.**, (2017) Optimal Arctic Port Locations: A quantitative composite multiplier analysis of potential sites. *Journal of Polar Geog.* DOI:10.1080/1088937X.2017.1400604
  - **VanderBerg, J.** (2016) Situation Assessment Report on Disaster Risk Reduction and Management in Lao PDR. *Food and Agricultural Organization of the UN, Lao PDR*.
  - **VanderBerg, J.** (2016) Integrating Disaster Risk Management: Planning into Action. *Ministry of Forestry and Agriculture – Government of Lao People's Democratic Republic*.
  - **VanderBerg, J.** (2015) Technical Recommendations for Improved Risk and Vulnerability Assessments in Lao PDR. *Food and Agricultural Organization of the UN, Lao PDR*.
  - **VanderBerg, J.** (2014) Measuring Access and Identifying Underserved Areas in Ulaanbaatar Mongolia. *The Asia Foundation*.
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## Presentations (selected of 13)

- **VanderBerg, J.**, & M. Seibentritt (2019) Resilient East Urban Heat Map. Regional Gov. and Eastern and Northern Councils of South Australia - Adelaide, Australia.
  - **VanderBerg, J.**, (2017) Children's Risk Assessment and Climate Vulnerability. Gov of Myanmar, Ministry of Social Welfare, Relief and Resettlement – Nay Pyi Taw, Myanmar.
  - **VanderBerg, J.**, (2016) Community Based Disaster Risk Reduction Planning. FAO Workshop on Agriculture Resilience Results – Vientiane, Lao PDR.
  - **VanderBerg, J.**, (2015) Spatial Risk and Vulnerability Assessments for Agriculture. FAO Workshop on Agricultural Resilience Planning – Savannakhet, Lao PDR.
  - **VanderBerg, J.**, (2014) GIS for Policy Makers: Best Practices and Advanced Applications. *Ulaanbaatar General Planning Agency, Ulaanbaatar, Mongolia*.
  - **VanderBerg, J.**, (2013) Measuring Access and Identifying Underserved Areas. *Ulaanbaatar Government General Assembly, Ulaanbaatar, Mongolia*.
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