

Matthew J. Gidden, Ph.D.

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CITIZENSHIP	USA	
RESEARCH INTERESTS	Energy systems, sustainable development, energy policy, integrated assessment modelings, scientific computation, nuclear fuel cycle analysis, advanced nuclear reactors, nuclear nonproliferation	
EDUCATION	<p>PH.D., <i>Nuclear Engineering</i>, University of Wisconsin - Madison March 2015</p> <ul style="list-style-type: none">• An Agent-Based Modeling Framework and Application for the Generic Nuclear Fuel Cycle• Advisor: Professor Paul P.H. Wilson <p>MASTERS, <i>Nuclear Engineering</i>, University of Wisconsin - Madison December 2011</p> <p>B.S., <i>Nuclear Engineering</i>, Texas A&M University May 2009</p> <ul style="list-style-type: none">• <i>Summa cum Laude</i>, With Honors in Engineering• Minor in Mathematics	
RESEARCH EXPERIENCE	<p>International Institute for Applied Systems Analysis, Energy Group, Laxenburg, AUSTRIA Oct 2015 – Present <i>Research Scholar</i> Develop and use MESSAGEix, a global Integrated Assessment Model, to perform large-scale comprehensive Land-Energy-Water Nexus analyses; develop common tools and procedures used by the global IAM community; perform GIS-based spatial modeling and analysis.</p> <p>University of Wisconsin, NE Dept., Madison, WI Apr – Oct 2015 <i>Postdoctoral Researcher</i> Investigated novel methods for modeling recycle fuel fabrication in NFC simulations.</p> <p>University of Wisconsin, NE Dept., Madison, WI Aug 2010 – Mar 2015 <i>Graduate Research Assistant</i> Aug 2009 – Jan 2010 Developed and extended the Cyclus NFC simulator to model generic nuclear fuel cycles.</p> <p>AREVA, Paris, FRANCE Feb – Jul 2010 <i>Research Intern (Stagiaire), Core Design Group</i> Simulated and analyzed a boron dilution accident in multiple reactor configurations using MCNP.</p> <p>Pacific Northwest National Lab, Richland, WA Jun – Aug 2009 <i>Research Assistant</i> Analyzed a design of an automated verification unit for canisters of enriched UF₆ using MCNP.</p> <p>TN International (AREVA), Montigny-le-Bretonneux, FRANCE Jun – Aug 2008 <i>Research Intern, Materials Group</i> Analyzed material suitability for nuclear cask shock absorber via dynamic compression testing.</p> <p>Oak Ridge National Lab, Oak Ridge, TN Jun – Aug 2007 <i>Research Assistant</i> Jun – Aug 2006 Tested the collimation of radiation portal monitors for use with the U.S. Megaports Initiative.</p>	

HONORS & AWARDS	2 nd Place in Energy Policy, Innovations in Fuel Cycle Research	2014
	Winner, The Why Files Cool Science Image Contest	2014
	Nuclear Energy University Program Graduate Research Fellowship	2010 – 2013
	American Nuclear Society Graduate Scholarship	2013
	Nuclear Regulatory Commission Undergraduate Scholarship	2008 – 2009
	President's Endowed Scholarship, Texas A&M University	2005 – 2009
	Stinson Scholarship, Texas A&M University	2005 – 2009
PROFESSIONAL ORGANIZATIONS & SERVICE	American Geosciences Union , Member	2018 – Present
	Elsevier Energy Forum , Member	2017 – Present
	European Geosciences Union , Member	2016 – Present
	Institute for Operations Research and Management Science , Member	2014 – Present
	American Nuclear Society , Member	2006 – Present
	Communications Committee, Member	2013 – Present
	Public Policy Committee, Member	2013 – Present
	Special Advisory Committee on Nuclear Nonproliferation, Member	2012 – 2016
	Student Sections Committee, Member	2010 – 2016
	Local Sections Committee, Member	2010 – 2012
	Nuclear Nonproliferation Special Committee, Member	2010 – 2012
	ANS Student Conference, Co-Chair	2008
	Institute of Nuclear Materials Management , Member	2008 – Present
	Alpha Nu Sigma , Member	2009 – Present
	Nuclear Engineering Student Delegation , Delegate	2011 – 2013
	Chair	2013
	Vice Chair	2012
	American Nuclear Society, Texas A&M Chapter , Member	2005 – 2009
	Vice President	2006 – 2007
TEACHING EXPERIENCE	European Geoscience Union General Assembly 2017 , Vienna, Austria	April 27, 2017
	Working with big, multi-dimensional geoscientific datasets in Python: a tutorial introduction to xarray	
	Open Energy Modeling Workshop , Frankfurt, Germany	April 19 – 21, 2017
	Introduction to Scientific Programming in Python	
	African Institute for Mathematical Sciences (AIMS)	Aug 31 – Sept 11, 2015
	Structured Master's in Mathematical Sciences , Cape Town, South Africa	
	Scientific Computation with Python	
	University of Wisconsin Advanced Computing Initiative , Madison, WI	Aug 26 – 27, 2015
	Software Carpentry: Version Control with Git	
	University of Wisconsin Advanced Computing Initiative , Madison, WI	Jan 13 – 16, 2015
	Software Carpentry: Version Control	
	University of Wisconsin Advanced Computing Initiative , Madison, WI	Aug 25 – 26, 2014
	Software Carpentry: Version Control and Unit Testing	
	University of Wisconsin Advanced Computing Initiative , Madison, WI	Aug 28 – 29, 2013
	Software Carpentry: Version Control	
	University of Wisconsin Advanced Computing Initiative , Madison, WI	Apr 29 – 30, 2013
	Software Carpentry: Version Control and Unit Testing	

COMPUTATIONAL SKILLS I have deep and broad software development skills and experience. I help maintain and manage a number of open source scientific software packages including MESSAGEix, pyam, aneris, Cyclus, and PyNE.

EXPERT (5+ YEARS EXPERIENCE)

Languages	C++/C, Python
Optimization	pyomo, GAMS
Build Systems	CMake, Make, Autoconf/Automake
Version Control	Git
Tools	L ^A T _E X, Doxygen, Jekyll, JSON, Sphinx, XML
Database Formats	SQL, HDF5, NetCDF
Test Frameworks	GoogleTest, PyTest, Nose
NE Applications	MCNP, Origen
Other Applications	Jupyter (Notebooks, Slides, etc.)

FAMILIAR

Languages	R, Java, FORTRAN, Visual Basic, Perl
Version Control	Mercurial, Subversion
Other Applications	Matlab, Mathcad, Mathematica, Maple

JOURNAL PUBLICATIONS

- [1] **Gidden, M. J.** Riahi, K. Smith, S. J. Fujimori, S. Luderer, G. Kriegler, E. Vuuren, D. P. Berg, M. Feng, L. Klein, D. Calvin, K. Doelman, J. C. Frank, S. Fricko, O. Harmsen, M. Hasegawa, T. Havlik, P. Hilaire, J. Hoesly, R. Horing, J. Popp, A. Stehfest, E. Takahashi, K., “Global emissions pathways under different socioeconomic scenarios for use in CMIP6: A dataset of harmonized emissions trajectories through the end of the century,” *Geoscientific Model Development Discussions*, vol. 2018, pp. 1–42, 2018. DOI: 10.5194/gmd-2018-266. [Online]. Available: <https://www.geosci-model-dev-discuss.net/gmd-2018-266/>
- [2] Fiedler, S. Stevens, B. **Gidden, M.** Smith, S. J. Riahi, K. Vuuren, D. v., “First forcing estimates from the future CMIP6 scenarios of anthropogenic aerosol optical properties and an associated Twomey effect,” *Geoscientific Model Development Discussions*, pp. 1–26, Oct. 2018, ISSN: 1991-959X. DOI: <https://doi.org/10.5194/gmd-2018-244>. [Online]. Available: <https://www.geosci-model-dev-discuss.net/gmd-2018-244/>
- [3] Parkinson, S. Krey, V. Huppmann, D. Kahil, T. McCollum, D. Fricko, O. Byers, E. **Gidden, M.** Mayor, B. Khan, Z. Raptis, C. Rao, N. Johnson, N. Wada, Y. Djilali, N. Riahi, K., “Balancing clean water-climate change mitigation trade-offs,” *Environmental Research Letters* (in press), 2018
- [4] Huppmann, D. **Gidden, M. J.** Fricko, O. Kolp, P. Orthofer, C. Pimmer, M. Vinca, A. Krey, V., “The messageix integrated assessment model and the ix modeling platform (ixmp),” *Environmental Modelling & Software* (in press), 2018
- [5] Rao, N. D. Sauer, P. **Gidden, M.** Riahi, K., “Income inequality projections for the Shared Socioeconomic Pathways (SSPs),” *Futures*, Aug. 2018, ISSN: 0016-3287. DOI: 10.1016/j.futures.2018.07.001. [Online]. Available: <http://www.sciencedirect.com/science/article/pii/S001632871730349X>
- [6] Bauer, N. Rose, S. K. Fujimori, S. Vuuren, D. P. Weyant, J. Wise, M. Cui, Y. Daioglou, V. **Gidden, M. J.** Kato, E., “Global energy sector emission reductions and bioenergy use: Overview of the bioenergy demand phase of the emf-33 model comparison,” *Climatic Change*, pp. 1–16, 2018

- [7] McCollum, D. L. Zhou, W. Bertram, C. Boer, H.-S. Bosetti, V. Busch, S. Després, J. Drouet, L. Emmerling, J. Fay, M. Fricko, O. Fujimori, S. **Gidden, M.** Harmsen, M. Huppmann, D. Iyer, G. Krey, V. Kriegler, E. Nicolas, C. Pachauri, S. Parkinson, S. Poblete-Cazenave, M. Rafaj, P. Rao, N. Rozenberg, J. Schmitz, A. Schoepp, W. Vuuren, D. Riahi, K., “Energy investment needs for fulfilling the paris agreement and achieving the sustainable development goals,” *Nature Energy*, 2018, ISSN: 2058-7546. DOI: 10.1038/s41560-018-0179-z. [Online]. Available: <https://doi.org/10.1038/s41560-018-0179-z>
- [8] Grubler, A. Wilson, C. Bento, N. Boza-Kiss, B. Krey, V. McCollum, D. L. Rao, N. D. Riahi, K. Rogelj, J. De Stercke, S. Cullen, J. Frank, S. Fricko, O. Guo, F. **Gidden, M.** Havlík, P. Huppmann, D. Kiesewetter, G. Rafaj, P. Schoepp, W. Valin, H., “A low energy demand scenario for meeting the 1.5° C target and sustainable development goals without negative emission technologies,” *Nature Energy*, vol. 3, no. 6, pp. 515–527, 2018, ISSN: 2058-7546. DOI: 10.1038/s41560-018-0172-6. [Online]. Available: <https://doi.org/10.1038/s41560-018-0172-6>
- [9] Byers, E. A. **Gidden, M.** Leclère, D. Burek, P. Ebi, K. L. Greve, P. Grey, D. Havlik, P. Hillers, A. Johnson, N. Kahil, T. Krey, V. Langan, S. Nakicenovic, N. Novak, R. Obersteiner, M. Pachauri, S. Palazzo, A. M. Parkinson, S. Rao, N. D. Rogelj, J. Riahi, K. Satoh, Y. Wada, Y. Willaarts, B., “Global exposure and vulnerability to multi-sector development and climate change hotspots,” *Environmental Research Letters*, 2018. [Online]. Available: <http://iopscience.iop.org/10.1088/1748-9326/aabf45>
- [10] Liu, L. Parkinson, S. **Gidden, M.** Byers, E. Satoh, Y. Riahi, K. Forman, B., “Quantifying the potential for reservoirs to secure future surface water yields in the world’s largest river basins,” *Environmental Research Letters*, vol. 13, no. 4, p. 044 026, 2018. [Online]. Available: <http://stacks.iop.org/1748-9326/13/i=4/a=044026>
- [11] **Gidden, M. J.** Fujimori, S. Berg, M. Klein, D. Smith, S. J. Vuuren, D. P. Riahi, K., “A methodology and implementation of automated emissions harmonization for use in integrated assessment models,” *Environmental Modelling & Software*, vol. 105, pp. 187 –200, 2018, ISSN: 1364-8152. DOI: <https://doi.org/10.1016/j.envsoft.2018.04.002>. [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S1364815217307867>
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- FORTHCOMING PUBLICATIONS
- [16] **Gidden, M. J.** Rao, N. D. Parkinson, S. C. Riahi, K., “Spatially explicit urban and rural poverty estimates under different global socioeconomic futures,” *Nature Scientific Data (in preparation)*,
- [17] Zhou, W. McCollum, D. L. **Gidden, M. J.**, “Decarbonization pathways for china consistent with well below 2 °c,” *Global Energy Interconnection (in review)*,
- [18] Daioglou, V. Rose, S. **Gidden, M. J.**, “Bioenergy technologies in long-run climate change mitigation: Results from the emf33 study,” *Climatic Change (in review)*,
- [19] Kriegler, E. **Gidden, M. J.** Riahi, K., “Taking stock of climate policies: Evaluation of national policies in the context of the paris agreement climate goals,” *Nature Climate Change (in review)*,
- [20] Krey, V. **Gidden, M. J.** Riahi, K., “Implications of the paris agreement for achieving the sustainable development goals,” *Nature Climate Change (in review)*,
- INVITED TALKS & PRESENTATIONS
- [21] **Gidden, M. J.** Vuuren, D., “The ScenarioMIP Process: Deliveries to CMIP6,” in *Plenary of the Eleventh Annual Meeting of the IAMC 2018*, Sevilla, Spain, Nov. 2018
- [22] **Gidden, M. J.**, “Scenarios of climate change mitigation,” in *Vienna NGO Committee on Sustainable Development*, Vienna, Austria, Nov. 2018
- [23] **Gidden, M.**, *Overview and timeline of scenariomip contributions to crescendo*, CRESCENDO General Assembly, Paris, France, Sep. 2018
- [24] **Gidden, M.**, *Messageix: Cutting edge research and challenges*, Centre National de la Recherche Scientifique (CNRS) Summer School: Integrated Assessment Modeling, Jun. 2018
- [25] **Gidden, M.**, *Insights from scenarios targeting the paris agreement*, United Nations Climate Change Conference (COP23), EU Pavilion, Bonn, Germany, Nov. 2017
- [26] **Gidden, M.**, *Developing future socioeconomic and greenhouse gas emission scenarios*, United Nations Climate Change Conference (COP23), UK Pavilion, Bonn, Germany, Nov. 2017
- [27] **Gidden, M.**, *Emissions pathways for climate modeling: harmonizing the ssps to cmip6 historical data*, CRESCENDO General Assembly, Paris, France, Sep. 2017
- [28] **Gidden, M.**, *Exploring nuclear fuel cycle simulation using htcondor*, HTCondor Week, Madison, WI, May 2015
- REFEREED PROCEEDINGS
- [29] **Gidden, M.** Wilson, P., “Dynamic resource exchange with coinor-cbc in cyclus, a nuclear fuel cycle simulator,” in *Operations Research and Computing: Algorithms and Software for Analytics*, Richland, VA, United States, Jan. 2015
- [30] **Gidden, M.** Carlsen, R. Opatowsky, A. Rakhimov, O. Scopatz, A. Wilson, P., “Agent-based dynamic resource exchange in cyclus,” in *Proceedings of PHYSOR*, Kyoto, Japan, Sep. 2014
- [31] **Gidden, M.** Wilson, P., “An agent-based framework for fuel cycle simulation with recycling,” in *Proceedings of GLOBAL*, Salt Lake City, UT, United States, Sep. 2013

- [32] **Gidden, M. J.**, “The burgeoning ecosystem of IAM tools: Current status and next steps,” in *Eleventh Annual Meeting of the IAMC 2018*, Sevilla, Spain, Nov. 2018
- [33] **Gidden, M. J.** Byers, E. Burek, P. Ebi, K. Greve, P. Havlik, P. Johnson, N. Kahil, T. Krey, V. Langan, S. Leclère, D. Obersteiner, M. Palazzo, A. Pachauri, S. Parkinson, S. Rao, N. Rogelj, J. Satoh, Y. Wada, Y. Willaarts, B. Riahi, K., “A global assessment of exposure and vulnerability to energy, water, and land climate change hotspots,” in *The 37th Edition of International Energy Workshop*, Jun. 2018
- [34] **Gidden, M. J.** et al., “Exposure and vulnerability to energy, water, and land hotspots under different climate futures,” in *Tenth Integrated Assessment Modelling Consortium Meeting*, Dec. 2017
- [35] **Gidden, M. J.** et al., “Emissions pathways for climate modeling: harmonizing the ssps to cmip6 historical data,” in *Tenth Integrated Assessment Modelling Consortium Meeting*, Dec. 2017
- [36] **Gidden, M. J.** Huppmann, D., “Diagnostics and analysis of iam results: presenting the pyam-analysis package,” in *Tenth Integrated Assessment Modelling Consortium Meeting*, Dec. 2017. [Online]. Available: <http://mattgidden.com/presentations/pyam-iamc2017>
- [37] **Gidden, M. J.** Byers, E. Greve, P. Kahil, T. Parkinson, S. Raptis, C. Rogelj, J. Satoh, Y. Vliet, M. Wada, Y. Krey, V. Langan, S. Riahi, K., “Hydroclimatic risks and uncertainty in the global power sector,” in *European Geosciences Union General Assembly*, Vienna, Austria, Apr. 2017
- [38] **Gidden, M. J.** Huppmann, D. Krey, V. Fricko, O. Kolp, P. Riahi, K., “The new MESSAGE_{ix} Modeling Platform,” in *Open Energy Modelling Workshop*, Frankfurt, Germany, Apr. 2017
- [39] **Gidden, M. J.** Parkinson, S. C. Rao, N. D. Riahi, K., “Spatial Downscaling of Urban and Rural Income and Inequality for the Shared Socioeconomic Pathways,” in *Ninth Annual Meeting of the IAMC 2016*, Beijing, China, Dec. 2016
- [40] **Gidden, M.** Wilson, P., “Dynamic resource exchange performance in cyclus,” in *Transactions of the American Nuclear Society*, San Antonio, TX, United States, Jun. 2015
- [41] Carlsen, R. W. **Gidden, M. J.** Wilson, P. P., “Deployment Optimization with the CYCLUS Fuel Cycle Simulator,” in *Transactions of the American Nuclear Society*, DOI link for code, methods, etc: <http://dx.doi.org/10.6084/m9.figshare.1086284>, vol. 111, Anaheim, CA, Nov. 2014, pp. 241–244
- [42] Biondo, E. Scopatz, A. **Gidden, M.** Slaybaugh, R. Bates, C. Willson, P. P., “Quality Assurance within the PyNE Open Source Toolkit,” in *Transactions of the American Nuclear Society*, vol. 111, Anaheim, CA, Nov. 2014. [Online]. Available: <https://github.com/pyne/ans-winter-2014-vnv>
- [43] **Gidden, M.** Wilson, P. Scopatz, A., “Developing standardized, open benchmarks and a corresponding specification language for the simulation of dynamic fuel cycles,” in *Proceedings of the 2013 ANS Summer Conference*, Atlanta, GA, United States, Jun. 2013
- [44] **Gidden, M.** Wilson, P. Huff, K. Carlsen, R., “Once-through benchmarks with cyclus, a modular, open-source fuel cycle simulator,” in *Proceedings of the 2012 ANS Winter Conference*, San Diego, CA, Nov. 2012
- [45] **Gidden, M.** Wilson, P. Huff, K., “Once-through benchmarks with cyclus,” in *ANS Student Conference*, Las Vegas, NV, 2011

[46] Huff, K. D. Wilson, P. P. **Gidden, M. J.**, “Open Architecture and Modular Paradigm of Cyclus, a Fuel Cycle Simulation Code,” in *Transactions of the American Nuclear Society*, vol. 104, 2011, p. 183

[47] Huff, K. Wilson, P. **Gidden, M.** Elmore, R., *Cyclus : An Open, Modular, Next Generation Fuel Cycle Simulator Platform*, Poster, Mar. 2011

[48] **Gidden, M.** Livesay, J. York, R. Blessinger, C., “Collimation of radiation portal monitors to reduce the innocent alarm rate (poster),” in *Transactions of the American Nuclear Society*, Washington, DC, Nov. 2007

OTHER PUBLICATIONS

[49] Wilson, P. P. H. Scopatz, A. **Gidden, M.** Carlsen, R. Mouginot, B. Flanagan, R., *Market-Based and System-Wide Fuel Cycle Optimization*. 2017. [Online]. Available: <http://www.osti.gov/scitech/servlets/purl/1363866>

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[51] **Gidden, M. J.**, “An Agent-Based Modeling Framework and Application for the Generic Nuclear Fuel Cycle,” Thesis, University of Wisconsin, Madison, WI, United States, Mar. 2015

[52] **Gidden, M.**, “An agent-based modeling framework and application for the generic nuclear fuel cycle,” Prelim, University of Wisconsin, Madison, Sep. 2013. [Online]. Available: <http://dx.doi.org/10.6084/m9.figshare.1132596>

SOFTWARE

[53] **Gidden, M.** Huppmann, D., “Pyam: Analysis and visualization of assessment models,” 2018. DOI: 10.5281/zenodo.1470489

[54] **Gidden, M.**, “Aneris: Harmonization for integrated assessment models,” 2017. DOI: 10.5281/zenodo.802832

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[59] Scopatz, A. Bates, C. R. Biondo, E. Huff, K. Kiesling, K. Carlsen, R. Davis, A. **Gidden, M.** Haines, T. Howland, J. Huff, B. Manalo, K. Opotowsky, A. Slaybaugh, R. Relson, E. Romano, P. Shriwise, P. Xia, J. D. Wilson, P. Zachman, J., “Pyne progress report,” Nov. 2014. [Online]. Available: <http://dx.doi.org/10.6084/m9.figshare.1250143>

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