

CURRICULUM VITAE

Matthew L. Sisk, Ph.D.

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Navari Family Center for Digital Scholarship
250G Hesburgh Library
Notre Dame, IN

Higher Education

2011 Ph.D. Anthropology (Archaeology)	Stony Brook University
2006 M.A. Anthropology (Archaeology)	Stony Brook University
2001 B.A. Anthropology (Archaeology)	University of South Carolina
2001 B.S. Marine Science (Geology)	University of South Carolina

Positions Held and Academic Ranks Attained

University of Notre Dame, Hesburgh Library, Associate Librarian,

August 2015 -	GIS Librarian
September 2015 -	Anthropology and Archaeology Liaison
November 2016-	Affiliated Faculty: Eck Institute for Global Health
August 2018-	Affiliated Faculty: Center for Civic Innovation

Past

2013 – 2015	University of Notre Dame, Hesburgh Libraries, Postdoctoral Fellow
2011 – 2013	Adelphi University, Environmental Studies Program, Adjunct Professor
2008-2013	Applied Biomathematics, Research Scientist
2012	University of Toulouse, TRACES Lab, <i>Chercheur invité</i> (Invited researcher)

Scholarships and Fellowships

2003 – 2010	Graduate Assistantship: Stony Brook University
2003 – 2011	Tuition Scholarship: Stony Brook University
1997 – 2001	Dean and President's List: University of South Carolina
1997 – 2001	Palmetto Fellows Scholarship: State of South Carolina

Distinctions, Honors, Awards

2020: Appointed to the Registrar of Professional Archaeologists
2020: Digitizing Hidden Collections 2020 Review Panel, Digital Library Federation
2015: Presidential Team Irish Award to the Historic Urban Environments Team for *Building South Bend*

Professional Memberships and Service

Professional Memberships:

Digital Library Federation
Society for American Archaeology
Paleoanthropology Society
American Library Association

Service:

Planning Committee: Digital Library Federation Forum 2019-2020
Session Moderator: Digital Library Federation Annual Forum, 2020
Session Chair: Digital Library Federation Annual Forum, 2019

Scholarship Committee: Digital Library Federation Forum 2019
Session Chair, Annual Meeting Society for American Archaeology 2012-2013

Continuing Education

- 2014 Accepted to Masters of Library and Information Science Program, University of South Carolina
Courses completed: SLS 701: Introduction to Library and Information Studies, Grade A
- 2013 Society of American Archivists course "Copyright Issues for Digital Archives"

Publications

- Vecchio J and **Sisk ML** (*in press*). Implementing a Data Visualization Space in a Digital Scholarship Center in Developing Digital Scholarship Services edited by Mitchem P and Rice D.
- Ringwald P, Chapin C, Iceman C, Tighe ME, **Sisk ML**, Peaslee GF, Peller J, Wells EM (2021). Characterization and within-site variation of environmental metal concentrations around a contaminated site using a community-engaged approach. *Chemosphere*. 272. 129915
- Aghassibake N, Joque J and **Sisk ML** (2020). Supporting Data Visualization Services in Academic Libraries. *Journal of Interactive Technology and Pedagogy*, Issue 18
- Tighe M, Knaub C, **Sisk ML**, Ngai, M, Lieberman M, Peaslee GF, and Beidinger H (2020). Validation of a screening kit to identify environmental lead hazards. *Environmental Research*. 181, article 108892
- Tighe M, Beidinger H, Knaub C, **Sisk ML**, Peaslee GF, and Lieberman M (2019). Risky bismuth: Distinguishing between lead contamination sources in soils. *Chemosphere*. 234. 297-301
- Beidinger-Burnett H, Ahern L, Ngai M, Filippelli G, and **Sisk ML** (2018). Inconsistent screening for lead endangers vulnerable children: policy lessons from South Bend and Saint Joseph County, Indiana, USA. *Journal of public health policy*, 40(1), 103-113.
- Bourrillon R, Ranlett S, **Sisk ML**, Devièse T, Comeskey DJ, White R, Tartar E, Chiotti L, Mensan R, Clark A, Castel J-C, Cretin C, Higham T and Morala A (2018) A new discovery of Aurignacian art at Abri Blanchard (Dordogne). *Quaternary International*
- Mensan R, Bourrillon R, Cretin C, White R, Gardère P, Chiotti L, **Sisk ML**, Clark AE, Higham T, and Tartar É. (2012). Une nouvelle découverte d'art pariétal aurignacien in situ à l'abri Castanet (Dordogne, France): contexte et datation. *Paléo* 23:171-188.
- White R, Mensan R, Bourrillon R, Cretin C, Higham T, Clark A, **Sisk ML**, Tartar E, Gardère P, Goldberg P, Pelegrin J, Valladas H, Tisnérat-Laborde N, de Sanoit J, Chambellan D, Chiotti L (2012) "Context and dating of Aurignacian "vulvar" representations : new evidence from Abri Castanet, France" *Proceedings of the National Academy of Sciences* 109 (22) 8450-8455.
- Sisk ML**, and Shea JJ. (2011) The African Origin of Complex Projectile Technology?: An analysis Using Tip-Cross Sectional Area and Perimeter. *International Journal of Evolutionary Biology* 2011, Article ID 968012
- White R, Bourrillon R, Cretin C, Mensan R, Gardère P, Chiotti L, **Sisk ML**, Clark A, Tartar É, and Higham T. (2010). Une nouvelle découverte d'art pariétal aurignacien à l'abri Castanet (France): contexte et datation. In: Clottes J, and González Morales M, editors. *Congrès de l'IFRAO; Symposium : L'art pléistocène en Europe (Pré-Actes)*. Tarascon-sur-Ariège, France.
- Sisk ML**. (2010). Three-Dimensional Gigapan Views of Archaeological Sites and Artifacts: Examples from the Paleolithic of Southwest France. *Proceedings of the Fine International Conference on Gigapixel Imaging for Science*, November 11-13, 2010.
- Sisk ML**, and Shea JJ. (2010) Defining complex projectile technology: A reply to Whittaker. *PaleoAnthropology* 2010: L9.
- Shea JJ, and **Sisk ML**. (2010) Projectile Technology and *Homo sapiens* Dispersal from Africa to Western Eurasia. *PaleoAnthropology* 2010:100-122.
- Sisk ML**, and Shea JJ. (2009) Experimental use and quantitative performance analysis of triangular

- flakes (Levallois points) used as arrowheads. *Journal of Archaeological Science* 36(9):2039-2047.
- Sisk ML**, and Shea JJ. (2008) Intrasite spatial variation of the Omo Kibish Middle Stone Age assemblages: Artifact refitting and distribution patterns *Journal of Human Evolution* 55:486-500.
- Sisk ML**. (2001) Survey of Phoenician Mortuary Practices at Ġhajj Klieb, Rabat (Malta). Columbia, SC: Undergraduate Honors Thesis: University of South Carolina.
- Vella NC, Borda K, Briffa J, Fenech K, Grinde K, Scerri E, **Sisk ML**, Stöger H, and Zammit ME. (2000) Ġhajj Klieb, Rabat (Malta): Preliminary report of an archaeological survey. *Malta Archaeological Review* 4:10-16.

References for an additional 15 non-referred technical reports are available upon request

Other Publishing Contributions

Reports

- Ahern, L, H Beidinger, LaFleur, D, Ngai, M and **Sisk, ML** (2017) Understanding the Problem of Lead in St. Joseph County, Indiana From 2005-15 Submitted to the St. Joseph County Health Department Board of Health, July 12, 2017: <http://www.sjchd.org/lead-nd-report/>

Book and Conference Reviews

- Sisk ML** (2012) Landscape of the Mind: Human Evolution and the Archaeology of Thought by John Hoffecker. *Journal of Anthropological Research*
- Sisk ML** and Shea JJ (2010) Annual Meetings of the Paleoanthropology Society and the Society for American Archaeology. *Evolutionary Anthropology* 19: 163-164
- Shea JJ and **Sisk ML**(2008) Paleoanthropology in Vancouver. *Evolutionary Anthropology* 17:127-8
- Royer DF, Gilbert CC, **Sisk ML**, and Wallace IJ. (2007) The first humans. *Evolutionary Anthropology* 16:86-87.
- Sisk ML** and Shea JJ (2006) Paleoanthropology in Puerto Rico. *Evolutionary Anthropology* 15:201-3
- Sisk ML**, Royer DF, and Carlson KJ. (2005) Recent developments in paleoanthropology. *Evolutionary Anthropology* 14:205-206.

Lectures and Addresses

- Maillie L, **Sisk ML**, Masalu N, Scanlan T, Schroeder K "Evaluation of Access to Timely Cancer Care in Tanzania Using a Developed Multi-Model Transport Network Software (CANGEO) presented at the 51st congress of the International Society of Paediatric Oncology (SIOP), Lyon, France October 23-26, 2019
- Butler P and **Sisk ML** "Using Digital Tools to Create an Inventory of Gender-Inclusive Bathrooms at the University of Notre Dame" presented at the Bucknell University Digital Scholarship Conference. October 11-13, 2019
- Sisk ML** and Butler P "Tools to Create an Inclusive Bathroom Inventory on a College Campus" poster presented at the Bucknell University Digital Scholarship Conference. October 11-13, 2019
- Sisk ML** and Johnson DJ "The Place of the Hitchhiker's Guide in the Early Home Computing Era" One Book, One Michiana Public Lecture, April 2, 2019 Hesburgh Libraries
- Beidinger-Burnett H, Knaub C, Ngai M, Sawyer K, **Sisk ML**, Lieberman M, Peaslee G and Tighe M, 2019. "Development of a scaleable, low-cost lead sample collection kit: a blinded case-control study". Presented at Consortium of Universities for Global Health and published in *The Lancet Global Health*, 7, p.S31.
- Meyers N, Ng J, **Sisk ML** Vecchio J "Data visualization support at universities" workshop presented at the Midwest Data Librarian's Symposium October 18-19 2018, Ames, IA
- Sisk ML** and Silva E "Multivariate approaches to understanding lead (Pb) exposure risk" poster presented at the Bucknell University Digital Scholarship Conference. October 5-7, 2018
- Sisk ML** "Using Digital Scholarship and Citizen Science to Reduce Lead Poisoning Risk in Indiana"

presented at the Bucknell University Digital Scholarship Conference. October 5-7, 2018

Sisk ML "Understanding the problem of Lead in Saint Joseph County" presented at the St. Joseph County Health Improvement Alliance, September 20, 2018

Sawyer K, Knaub C, Tighe M, Forbes D, Marks C, Nicolay L, Gutierrez C, Dowd M, Bielski M, **Sisk ML** and Ngai M, 2018. Utilizing Citizen Science to Reverse the Current Lead Testing Paradigm: Development of a Scalable, Low-cost Home Lead Test Kit. *Proceedings of IMPRS*, 1(1).

Sisk ML and DJ Johnson "The Commodore 64 and the Early Home Computing Era" presented at the History Museum, South Bend, IN September 14, 2017

Sisk, ML "Community-Based Mapping in South Bend, Indiana Using ArcGIS Collector" presented at ESRI Users Conference, San Diego, CA, July 10-14, 2017

ML Sisk "Type-in code books, the Commodore 64 and chronotopes" presented at the 2017 R-CADE Symposium, Camden, NJ April 21, 2017

Anders, S and **ML Sisk** "The Historic Urban Environments Lab at Notre Dame (HUE/ND) Cities in Text: Rome A Case Study in Digital Documentation" presented at the IDRH Digital Humanities Forum 2016: Places, Spaces Sites, Lawrence, KS, October 1, 2016

Sisk ML and Wood D "Involving Students in Community Based Mapping Projects at the University of Notre Dame" presented at *Collaborating Digitally: Engaging Students in Public Scholarship*, Bucknell University. 6-8 November, 2015.

Sisk ML and Vecchio J "Library-based Digital Scholarship Centers: An example from the University of Notre Dame" presented at the *2015 Michiana Scholarly Communication Librarianship Conference*. October 23, 2015.

Parker J, Anderson B, Feasel E, Heet A, and **Sisk ML** "Re-imagine Community: Building South Bend-Past, Present, Future" presented at the APA-IN 2015 Fall Conference, South Bend IN, October 7-9, 2015.

Heet, A and **Sisk ML** "Building South Bend: Past Present and Future" Presented at the Insights into History Program. The History Museum, South Bend, IN October 6, 2015

Sisk, ML and Papson, A "Collaboration and Outreach through the Center for Digital Scholarship at the University of Notre Dame" presented at *Collaborating Digitally: Engaging Students in Faculty Research*, Bucknell University. 14-16 November, 2014.

Mandernach, M, Courtney, A, Papson, A, Havert, M, and **Sisk, ML** "Training and Outreach through Library-Based Digital Scholarship Centers" presented at Kelvin Smith Library's Digital Scholarship Colloquium. Case Western University, Cleveland, OH, November 6-7, 2014

Regan, PM and **Sisk ML** "Climate and Conflict: Another Look" presented at the annual meetings of the Peace Science Society International, University of Pennsylvania, Philadelphia, Oct 9 & 10, 2014

Regan, PM, Boehlefeld, K and **Sisk ML** "Climate Change and Conflict: Another Look" Presented at 14th annual Jan Tinbergen European Peace Science Conference, The Hague, Netherlands , June 23-25, 2014

Sisk, ML "Ecological Modeling of Middle and Upper Paleolithic Sites in the Vezere Valley, France" presented at the 79th Annual Meeting of the Society for American Archaeology. Austin, Texas April 23-27, 2014

Havert M, **Sisk ML**, Papson A, and Ng J. "Outreach Through Workshops at The University of Notre Dame's Center for Digital Scholarship" Webinar presented to the ACRL Data Curation Interest Group. February 21, 2014

Parker, J and **Sisk ML**. "New Technologies to Study the Built Environment." The Seaside Prize Colloquium. Seaside, Florida. January 31, 2014.

Sisk, ML and Mensan R "Factors controlling Aurignacian Settlement in the Middle Vézère Valley: The example of the Castel-Merle Vallon" Presented at the Aurignacian Genius Symposium April 8-10, 2013

- Sisk, ML** "Investigating the morphological constraints on stone projectile tips" Presented at the 77th Annual Meeting of the Society for American Archaeology. Memphis, TN April 18 – 22, 2012
- Garrett, ZS and **Sisk ML** "Reassessing Aurignacian site location: the effects of Medieval populations on Upper Paleolithic sites in the Vallon de Castel Merle" Presented at the 77th Annual Meeting of the Society for American Archaeology. Memphis, TN April 18 – 22, 2012
- Clark, AE, Mensan R, **Sisk ML**, White R and Goldberg P "A recently excavated Aurignacian fire feature at Abri Castanet, France" Presented at the 21st Annual Meeting of the Paleoanthropology Society, April 17 – 18, 2012
- Sisk, ML** "A critical review of simple proxies for projectile plausibility" Presented at the Stone Age Weaponry Workshop, Mainz, Germany September 19 – 22, 2011
- Sisk ML**, Bourrillon R, Mensan R, White R, Clark A, Cretin C, Chiotti L, Gardère P, Tartar É. "The Aurignacian rock engravings of Abri Castanet: 3D documentation and analysis" Presented at the 20th Annual Meeting of the Paleoanthropology Society, Minneapolis, MI April 12 - 13, 2011
- Hicks T, **Sisk ML**, Watson A, Schurmans, U and Villeneuve, S. "GIS in the Analysis of Pithouse Village Occupation at Keatley Creek, British Columbia Plateau" Presented at the 76th Annual Meeting of the Society for American Archaeology. Sacramento, CA March 30 – April 03, 2011
- Villeneuve, S, Hayden B, Goldberg P, Cross G and **Sisk ML** "Investigating Processes of Aggregated Village Formation on the Western Canadian Plateau" Presented at the 76th Annual Meeting of the Society for American Archaeology. Sacramento, CA March 30 – April 03, 2011
- Sisk ML** and Shea JJ "The use of tip cross-sectional perimeter in determining projectile use: Experimental, archaeological and theoretical approaches" The 75rd Annual Meeting of the Society for American Archaeology. Saint Louis, MO, April 14 - 18, 2010
- Sisk ML** "Using Gigapan imagery in archaeological contexts" 3rd Annual Gigapan Workshop. Pittsburgh, PA, Oct 22–24, 2009
- Sisk ML**, Mensan R, and White R "Topographic interpolation as a tool for excavation: Examples from the Abri Castanet, Dordogne (France)." Presented at the 17th Annual Meeting of the Paleoanthropology Society, Vancouver BC. March 25 - 26, 2008
- Sisk ML**, Cross G, and Villeneuve S "Methodological advances in recording housepit stratigraphy: Using GIS to integrate disparate data" Presented at the 73rd Annual Meeting of the Society for American Archaeology. Vancouver, BC, March 26 - 30, 2008
- Spafford J, Villeneuve S, **Sisk ML** and McMaster T "Reconstructing regional settlement patterns in the Mid-Fraser Canyon" " Presented at the 73rd Annual Meeting of the Society for American Archaeology. Vancouver, BC, March 26 - 30, 2008
- Villeneuve S, Hayden B, Springer C, White C, Fox M, Kavanaugh S, Endo N, Carroll B, Wigen B, **Sisk ML**, Cross G, Goldberg P, Smith C, and Spafford J (2008) "Reporting on Recent Work at Keatley Creek." Paper presented at the Annual British Columbia Archaeology Forum. Simon Fraser University, Burnaby .
- Sisk ML** and Shea JJ "Spatial Structure of Middle Stone Age Sites from the Lower Omo Valley Kibish Formation (Ethiopia)." Presented at the 71st Annual Meeting of the Society for American Archaeology San Juan, Puerto Rico, April 26 - 30, 2006
- Sisk ML**, Patel BA, and Carleson, KJ "Subchondral bone thickness in the distal radius: Implications for interpreting positional behaviors of fossil hominins." Presented at the 15th Annual Meeting of the Paleoanthropology Society, San Juan, Puerto Rico, April 24 - 26, 2006.
- Sisk ML** and Shea JJ "Experimental Use of Levallois Points as Projectile Points" Presented at the 14th Annual Meeting of the Paleoanthropology Society, Milwaukee, WI, April 5 - 6, 2005.

Grants and Sponsored Programs

2020: HUD

- 2020: **Civic Switchboard (IMLS)**: (\$9,000): South Bend Civic Data Community Partnership Project
Investigator (with SJCPL and City of South Bend)
- 2019: **STAR Collaboration Laboratory (CUGH)**: (\$15,000): Strengthening Research Infrastructure and Collaboration in Palliative Care
Co-Principal Investigator (with Lacey Ahern and)
- 2019: **Center for Social Concerns** (\$10,000): Lead poisoning risk in rural areas
Co-Principal Investigator (with Heidi Beidinger-Burnett)
- 2018: **Indiana Clinical and Translational Sciences Institute** (\$85,000): Automating tools to for Citizen Science tools to reduce lead poisoning in Indiana children
Co-Principal Investigator (with Gabriel Phillipelli, IUPUI)
- 2018: **Provost's Digital Initiatives** (\$2,500) for lead risk video production
Principal Investigator
- 2017: **Faculty Research Support Program** (\$80,000): A New Paradigm to Reduce Lead Poisoning in South Bend Children
Awarded to Graham Peaslee (Sisk, co-PI)
- 2016: **Ganey Grant to ND Lead Team** (~\$8,000) to Eck Institute team
Team Member
- 2015: **Faculty Implementation Grant, Office of Digital Learning** (~\$15,000) for GIS module creation
Principal Investigator
- 2015: **Research Award, Office of Research to Historic Urban Environment team** (\$85,500)
Team Member
- 2010 **Partner University Fund** (\$150,000 / year for 3 years)
Affiliated Researcher (PIs: Randall White and Francois Bon)
- 2009 **Geological Society of America Dissertation Improvement Grant** (\$2,620)
Principal Investigator
- 2007 **L.S.B. Leakey Foundation Dissertation Improvement Grant** (\$7,276)
Principal Investigator
- 2006 **Wenner Gren Foundation General Grant** (\$23,160)
Co-Principal Investigator

Current Courses Taught

Data Visualization: Master in Data Science, University of Notre Dame
Practical Data Visualization for Global Affairs: Master in Global Affairs, University of Notre Dame
Geographic Information Systems: College of Arts and Letters, University of Notre Dame
Geographic Information Systems: College of Engineering, University of Notre Dame
Community-based Research and Mapping, Center for Social Concerns, University of Notre Dame

Students Supervised

Primary Adviser:

2020: Anthony Williams: *Predicting Childhood Blood Lead Levels in St. Joseph County and Elkhart County, Indiana* . Masters of Global Health

2018: Elijah Silva: *Developing a Predictive Model to Assess the Relationship Between Socioeconomic Factors and Childhood Blood Lead Levels at the Census Tract Level*. Masters of Global Health

Committee Member:

2020: Ainur Kagarmanova: *Describing the Current State of Palliative Care in Uganda*. Masters of Global Health

2019: Hailey Sledge: *Assessment of Maternal Referral Services in Southwest Rural Nigeria Through Geographic Information Systems and Surveys*. Masters of Global Health

- 2019: Anna Sudbo: *Evaluating the Communication for Behavioral Impact (COMBI) Dengue Prevention Program for Efficiency and Impact in Kedah, Malaysia*. Masters of Global Health
- 2019: Keenan Sweeney: *Social and Environmental Risk Factors Associated with Nodding Syndrome and Prevalence of Onchocerca spp. in Simulium spp. in Northern Uganda*. Masters of Global Health
- 2018: Kaitlyn Syler : *Assessing the Role of Nurses and Clinical Officers in Provision of Morphine for Pain Relief in Uganda* . Masters of Global Health
- Jenna Wozniak: *Community Knowledge, Attitudes and Practices Around Blackflies and the Diseases that They Transmit in Northern Uganda*. Masters of Global Health
- 2017: Danielle LaFleur: *Understanding and Investigating the Problem of Lead in St. Joseph County, Indiana*. Masters of Global Health
- 2016: Kaila Barber: *Distance to health care facilities and the health status of persons living with HIV*. Masters of Global Health

Other Notable Contributions

Assisted in the creation of the following applications and websites:

- 2017: Textual Geographies (<http://txtgeo.net/>)
- 2016: Cities in Text: Rome (<http://hue.crc.nd.edu>)
- 2016: Reading Modernist Cities (<http://modernism.gistemp.com/omeka/>)
- 2015: Building South Bend (<http://www.buildingsouthbend.nd.edu/>)
- 2015: Downtown SB (<https://itunes.apple.com/us/app/downtown-sb/id993179423>)
- 2014: SPQR/ND (<https://itunes.apple.com/us/app/id932396810>)
- 2014: Seaside Research Portal (<https://seaside.library.nd.edu/>)