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Curriculum Vita
Aylar Abdollahzadeh

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Current position:

Arizona State University, Tempe, AZ

Postdoctoral Research Scholar, Institute of Human Origins, School of Human Evolution and Social Change.

EDUCATION

University of Pennsylvania, Philadelphia, PA

Ph.D. Department of Anthropology, August 2022

University of Tarbiat Modares, Tehran, Iran

M.A. Department of Archaeology, January 2010

University of Tehran, Tehran, Iran

B.A. Department of Archaeology, May 2007.

RESEARCH AND TEACHING INTERESTS

Introduction to Archaeology

Human Evolution

Experimental Archaeology and Research Design

Archaeological Field Methods

Data Collections, Analysis, and Management

FELLOWSHIPS AND AWARDS

2020 National Science Foundation. **DDRIG** in Archaeology, BCS-2029098.

2018 **Greenwalt Fund**, University of Pennsylvania Museum of Archaeology and Anthropology.

2018 **Junior Fellow of the Louis J. Kolb Society**, University of Pennsylvania Museum of Archaeology and Anthropology: 2020-2022.

- 2017** **Department of Anthropology Summer Field**, University of Pennsylvania Museum of Archaeology and Anthropology.
- 2016** **Penn Museum Award**, University of Pennsylvania Museum of Archaeology and Anthropology.
- 2015** **Benjamin Franklin Fellowship**, University of Pennsylvania. Granted for 5-year Ph.D. program (2015-2020).

PEER REVIEWED PUBLICATIONS

- 2024** **Abdolahzadeh, A.**, Olszewski, D., Sandgathe, D. M., Schurr, T. G., Leader, G. M. Assessing the impact of freeze-thaw weathering processes on flaked stone artifacts. *Lithic Technology* (In preparation).
- 2024** **Abdolahzadeh, A.**, Olszewski, D., Ranhorn, K. How do we recognize convergence in lithic technology. *Journal of Paleolithic Archaeology* (In preparation).
- 2024** Olszewski, D., al-Nahr, M., **Abdolahzadeh, A.** Fire use in the Levantine Early Epipaleolithic: The Dibble and Colleague Lithics Count Method Questions and Answers. *Journal of Paleolithic Archaeology* (In preparation).
- 2023** **Abdolahzadeh, A.**, Leader, G. M., Li, L. Olszewski, D. I., Schurr, T. G. Heat exposed lithics: An experimental approach to quantifying Potlids by temperature *Journal of Archaeological Sciences: Reports*. 48, 103894. <https://doi.org/10.1016/j.jasrep.2023.103894>
- 2022** Li Li, Sam C. Lin, Shannon P. McPherron, **Aylar Abdolahzadeh**, Annie Chan, Tamara Dogandžić, Radu Iovita, George M. Leader, Matthew Magnani, Zeljko Rezek, Harold L. Dibble. A synthesis of the Dibble et al. controlled experiments into the mechanics of lithic *Journal of Archaeological Method and Theory*. <https://doi.org/10.1007/s10816-022-09586-2>
- 2022** **Abdolahzadeh, A.**, McPherron, S. P., Sandgathe, D. M., Schurr, T. G., Olszewski, D. I., & Dibble, H. L. (2022). Investigating variability in the frequency of fire use in the archaeological record of Late Pleistocene Europe. *Archaeological and Anthropological Sciences*, 14(4), 62. <http://dx.doi.org/10.1007/s12520-022-01526-1>
- 2021** Lin, S., Zeljko Rezek, **Aylar Abdolahzadeh**, David R. Braun, Tamara Dogandžić, George M. Leader, Li Li, Shannon P. McPherron. The mediating effect of platform width on the size and shape of stone flakes. *PLoS ONE*. 17 (1). e0262920-e0262920. <https://journals.plos.org/plosone/>
- 2020** McPherron, S. P., **Abdolahzadeh, A.**, Archer, W., Chan, A., Djakovic, I., Dogandzic, T., Leader, G. M., Li, L., Lin, S., Magnani, M., Reeves, Z., Weiss, M., 2020. Introducing platform surface interior angle (PSIA) and its role in flake formation, size and shape. *PLoS ONE* 15 (11). <https://doi.org/10.1371/journal.pone.0241714>

- 2020** Dogandzic, T., **Abdolahzadeh, A.**, Leader, G., Li, L., Claudio, T., Dibble, H. L. Are the Results of Lithic Experiments Performed on Glass Cores Applicable to other Raw Materials? *Archaeological and Anthropological Sciences* 1-14.
<https://doi.org/10.1007/s12520-019-00963-9>
- 2017** Dibble, H., **Abdolahzadeh, A.**, Aldeias, A., Goldberg, P., McPherron, P. S., Sandgathe, D., 2017. How did Hominins Adapt to Ice Age Europe without Fire? *Current Anthropology* 58 (16), S278-S287. <https://doi.org/10.1086/692628>
- 2017** Leader, G., **Abdolahzadeh, A.**, Lin, S. C., and Dibble, H. L., 2017. The Effects of Platform Beveling on Flake Variation. *Journal of Archaeological Science Reports* 16, 213-223.
<https://doi.org/10.1016/j.jasrep.2017.09.026>

PROFESSIONAL CONFERENCES AND PRESENTATIONS

- 2023** How do We Recognize Convergence in Lithics. *Society for American Archaeology Meetings*. Portland, USA. March 29th-April 2nd.
- 2022** A Controlled Pilot Experiment to Test the Impact of Freezing on Flint Artifacts. *Society for American Archaeology Meetings*. Chicago, USA. March 30th- April 3rd
- 2021** Taphonomy of Fire: An Experimental Approach to Quantifying Potlids by Temperatures. *13th International Symposium for Knapped Materials*. Tarragona, Spain. October 4-7th.
- 2021** Heat-Fracturing: An Experimental Approach to Quantifying Potlids by Temperatures. *Union International Science Prehistory and Protohistory*. Meknès, Morocco. September 1-6th.
- 2021** Fracture Mechanics, Virtual Knapper, and Controlled Experiments: Towards a Better Model of Flake Formation. *Society for American Archaeology Meetings*. San Francisco, USA. April 10-12th.
- 2020** Does the Southwest France Pattern of Neandertal Fire Use Exist Across Europe? *Society for American Archaeology Meetings*, Austin, Texas, USA (Accepted).
*Affected by COVID 19. Planned for next conference.
- 2019** Controlled Experiments in Flake Formation using Glass and Raw Materials. Poster presentation at European *Society for the study of Human Evolution* (ESHE). Liege, Belgium. September 1-6th.
- 2019** Force and Flake Size: Implications for Hominin Strength. *Palaeoanthropology Society Meetings*, Albuquerque, USA. April 10-14th.

- 2018** The Effect of Raw Materials on Flake Variation. *Society for American Archaeology meetings*. Washington DC, USA. April 10-14th.
- 2017** The Effects of Platform Beveling on Flake Variation. *Society for American Archaeology Meetings*, Vancouver, Canada. April 10-14th.
- 2014** Cultural Characteristics of North-western Iran in the Parthian Period (Based on the Results of the 2nd Season of Excavations at Köhne Pāsgāh Tepesi. *ICAANE*, Basel, Switzerland. July 10-15th.
- 2012** Report of the Second Season of Excavation at Köhne Pāsgāh Tepesi (Khoda Afarin, Azerbaijan). *The 11th Annual Symposium of Iranian Archaeology*. National Museum, Tehran, Iran.

BOOK CHAPTER

- 2013** Vahdati Nasab, H., Ebrahimi, H., and **Abdolazadeh, A.**, 2013. Palaeoanthropology in the Past half-century in Appearance of Human. *Negar Nashr institution*, Tehran, Iran. Pp. 12-30.

INVITED TALKS

- 2023** Center for Archaeology and Society, School of Human Evolution and Social Changes at Arizona State University “Understanding human-environment interaction through the lens of fire use in the archaeological records of the Late Pleistocene Europe.”
- 2023** Department of Anthropology University of Connecticut “Understanding human-environment interaction through the lens of fire use in the archaeological records of the Late Pleistocene Europe.”
- 2023** Unified Anthropology Association at Arizona State University “Paleolithic Archaeology”
- 2021** Department of Anthropology Colloquium, University of Minnesota “Investigating Variability in the Frequency of Fire Use in the Archaeological Record of Late Pleistocene Europe.”
- 2020** Kolb Society Colloquium “Investigating Variability in the Frequency of Fire Use in the Archaeological Record of Late Pleistocene Europe.”
- 2019** Penn Museum Living Room Lecturers. University of Pennsylvania. Invited by Dr. George M. Leader to provide a demonstration of experimental archaeology knapping machines.

TEACHING EXPERIENCE

2018 Forensic Anthropology (ANTH 230). Teaching Assistant. Spring Term. University of Pennsylvania. Guest Lecturer and grading for Dr. Samantha Cox.

2017 Becoming Human (ANTH 122). Teaching Assistant. Spring Term. University of Pennsylvania. Three times lab workshops and grading for Dr. Janet Monge.

2017 Introduction to Human Evolution (ANTH 003). Teaching Assistant. Fall Term.

2016 Introduction to Human Evolution (ANTH 003). Teaching Assistant. Fall Term. University of Pennsylvania. Taught two weekly recitations and grading for Dr. Janet Monge.

RESEARCH EXPERIENCE

Mrs. Katherine Blanchard, Penn Museum, University of Pennsylvania, Philadelphia, PA
Museum Assistant, 2020-2021

- Digital cataloging lithic typology of Penn Museum's Bisitun collection.
<https://www.penn.museum/blog/museum/the-scrappers-of-Bisitun-cave/>
- Digital cataloging lithic typology of Penn Museum's Ksar Akil lithic collection.

Dr. Harold L. Dibble, University of Pennsylvania, Philadelphia, PA
Lab Assistant, 2015-2018

- Teaching lithic typology and technology for Archaeology course (The Material World in Archeological Science (ANTH 221/521) at the Center for the Analysis of Archaeological Materials (CAAM).
- Organizing and conducting experimental works as well as contributing to social media and data sharing (The Laboratory for the Study of Ancient Technology) at the Penn Museum to update our experimental activities for public outreach.

Dr. Harold L. Dibble, University of Pennsylvania, Philadelphia, PA
International Lab Assistant, 2015-2016

- Archaeological field project at La Ferrassie and Combe-Grenal (Dordogne, France).

Dr. Vera Aldeias, Interdisciplinary Center for Archaeology and the Evolution of Human behavior, University of Algarve, Portugal. July 2019

- Co-lab assistant for archaeological field Project at Pech IV Project (Dordogne, France).

Workshop Assistant

Dr. Katherine Moore, University of Pennsylvania, September 2019

- Workshop to demonstrate flintknapping for Anthropology course: Food and Fire (ANTH 148).

Dr. Megan Kassabaum, University of Pennsylvania, September 2018

- Workshop to demonstrate flintknapping for Anthropology course: Introduction to Archaeology (ANTH 001).

INTERNATIONAL RESEARCH PROJECT

Data Collections and Management

United States of America, 2020-2021

- Analysis of Ein Difla lithic collections (at Arizona State University, Tempe, Arizona, USA).
- Analysis of Nahr Ibrahim lithic collections (at Penn Museum, University of Pennsylvania; Philadelphia, USA).

Czech Republic, Brno, 2019

- Analysis of the Kulna lithic collection (at Historical Section of Moravian Museum; Brno, Czech Republic).

France, 2015-2019

- Analysis of the Abri du Maras lithic assemblage (at Institute de Paleontologie Humanie; Paris, France, 2019).
- Analysis of Abri-Pataud lithic collections (at Les Eyzies: Musée de l'abri Pataud; Périgord region, France). Supervised by Dr. Harold L. Dibble and Dr. Dennis Sandgathe, 2016.
- Analysis of Combe Grenal lithic collections (at Les Eyzies: Musée National de préhistoire; Périgord region, France). Supervised by Dr. Harold L. Dibble and Dr. Dennis Sandgathe, 2016.
- Analysis of lithic assemblages from La Ferrassie (Dordogne, France). Supervised by Dr. Harold L. Dibble, 2015.

Germany, 2019

- Analysis of the Bockstein lithic collection (at Institute Für Ur-und Frühgeschichte und Archäologie des Mittelalters; Tübingen, Germany), 2019.
- Analysis of the Sesselfelsgrötte lithic collections (at Institute Für Ur-und Frühgeschichte; Erlangen, Germany), 2018.

Spain, 2019

- Analysis of the Abric Romaní lithic collections (at Institute Català de Paleoecologia Humana Evolució Social (IPHES); Tarragona, Spain), 2019.

INTERNATIONAL FIELD EXPERIENCE

Excavation and Lab Works, 2012-2019

United States of America, 2017

- Arch Street Project, Historic American Burial Ground (Philadelphia, United States). Directors: George M. Leader, and Kimberlee Moran, 2017.

France, 2014-2019

- Pech de l'Azé IV Project (Dordogne, France). Directors: Vera Aldeias, Dennis Sandgathe, Shannon McPherron, Paul Goldberg, and Deborah Olszewski, 2019.
- La Ferrassie (Dordogne, France). Directors: Harold Dibble, Shannon McPherron, Alain Turq, Dennis Sandgathe, Paul Goldberg, 2014-2015.

Germany, 2012-2016

- Ranis (Germany). Directors: Jean-Jaques Hublin, Shannon McPherron, Marcel Weiss, and Tim Schuler, 2016.
- Hohle Fels (Blaubeuren, Germany). Directors: Nicolas Conard and Maria Malina, 2015.
- Fetzter Halden Hohle (Niederstotzingen, Germany). Directors: Nicolas Conard, Maria Malina, Mohsen Zeidi, 2014.
- Hohle Fels (Blaubeuren, Germany). Directors: Nicolas Conard and Maria Malina, 2014.
- Vogelherd Cave (Niederstotzingen, Germany). Directors: Nicolas Conard and Mohsen Zeidi, 2012.
- Hohle Fels (Blaubeuren, Germany). Directors: Nicolas Conard and Maria Malina, 2012.

Iran, 2005-2009

- Sagzabad (Ghazvin, Iran). Directors: Hasan Fazeli Nashli, Hossein Azizi. Supported by Tehran University, 2009.
- Rahmatabad (Shiraz, Iran). Directors: Hasan Fazeli Nashli, Hossein Azizi. Supported by Tehran University, 2008.
- Khodaafarin Dam (East Azerbaijan province, Iran). Directors: Ali Zalaghi and Bayram Aghalari. Supported by Tehran University, 2008.
- Sialk (Kashan, Iran). Directors: Hassan Fazeli Nashli and Robin Coningham. Supported by Tehran University, 2007.
- Noshabad and Sialk (Kashan, Iran). International excavation project; directors: Hassan Fazeli Nashli and Robin Coningham. Supported by Tehran University, 2006.
- Ghaberstan (Ghazvin, Iran). Directors: Rahmat Molasalehi, Haydeh Laleh, Hassan Fazeli Nashli. Supported by Tehran University, 2005.

LANGUAGES

Farsi (Native)

English (fluent)

German (Conversation and Reading Knowledge)

ADDITIONAL SKILLS

R-software

3D scanning

Petrographic analysis

REFERENCES

Dr. Kathryn Ranhorn

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Dr. Deborah Olszewski
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University of Pennsylvania
deboraho@sas.upenn.edu
Telephone: +1 610.7890.422

Dr. George M. Leader
Visiting Assistant Professor, Department of Sociology and Anthropology
The College of New Jersey
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Telephone: +1 717.903.2216

Dr. Dennis Sandgathe
Senior Lecturer, Department of Archaeology
Simon Fraser University
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Dr. Theodore G. Schurr
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