

Curriculum Vitae

Dr. Gregor Donatus Bader

Date & Place of Birth: 23.04.1988 in Stuttgart
Nationality: German

Institutional Address:
Senckenberg Centre for Human Evolution and
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<https://www.senckenberg.de/de/institute/shep/das-institut/>

Current position:

I am a Prehistoric Archaeologist currently employed by the Senckenberg Centre for Human Evolution and Palaeoenvironment at the University of Tübingen, Germany. I'm also holding an Associate Researcher affiliation with the Palaeo-Research Institute at the University of Johannesburg, South Africa. My research is focused on the African Middle and Later Stone Age (MSA & LSA). In addition, I am in charge of the archaeological collection housed at the Department of Early Prehistory and Quaternary Ecology and the Material Culture Laboratory at the University of Tübingen.

In my research I am focusing on cultural variability of hunter gatherer societies living during the MSA and LSA in Africa. I am specialised in lithic technology combining different approaches, such as attribute analysis and chaîne opératoire, in order to connect qualitative and quantitative data. My main research area is eastern South Africa, where I am about to establish a better regional archaeological framework for the last 40.000 years, respectively the final-MSA and LSA. My current main excavation site is Holley Shelter in KwaZulu-Natal. Furthermore, I am collaborating with the German Archaeological Institute (DAI) on projects aiming to reinvestigate archaeological collections of Eswatini and to conduct new excavations of selected sites in the country. On a broader scale we aim to re-establish archaeology in Eswatini both, on the governmental and university scale. This project encompasses several time periods from the MSA and LSA to the Iron Age, and hence, the contact periods between hunter gatherers and farmers. We are also conducting research at Lion Cavern in Eswatini, the oldest ochre mine in the world. The project aims to re-date the archaeological deposits of the site and to test ochre provenance using methods from archaeological sciences.

Studies and education

- October 2017
Dissertation at the Department of Early Prehistory and Quaternary Ecology, University of Tübingen, Germany.
Topic: *On the variability of Middle Stone Age lithic technology during MIS3 in KwaZulu-Natal, South Africa.* (magna cum laude).
Supervisor: Prof. Nicholas J. Conard
Prof. Michael Bolus
- April 2014 – October 2017
PhD Student at the Department of Early Prehistory and Quaternary Ecology, University of Tübingen, Germany.
Topic: *On the variability of Middle Stone Age lithic technology during MIS3 in KwaZulu-Natal, South Africa.*
- September 2013
Master of Arts at the Department of Early Prehistory and Quaternary Ecology, University of Tübingen, Germany.
Topic: *Holley Shelter, Neue Erkenntnisse zur Variabilität des Middle Stone Age im südlichen Afrika.*
Supervisor: Prof. Nicholas J. Conard
Prof. Michael Bolus
- July 2011
Bachelor of Arts at the Department of Early Prehistory and Quaternary Ecology, University of Tübingen, Germany.
Topic: *Stratigraphische Befunde aus dem Paläolithikum der Höhle Grotte de la Verpillière I in Germolles (Saône-et-Loire, Frankreich).*
Supervisor: Prof. Harald Floss
- June 2008
Final secondary-school examinations (Abitur) at the Kreisgymnasium Riedlingen (88499 Riedlingen an der Donau).
- ## **Employments**
- Since June 2018
Researcher/Collections Curator at the Senckenberg Centre for Human Evolution and Palaeoenvironment, University of Tübingen. Burgsteige 11, 72070 Tübingen (Germany)
- January 2018 – June 2018
Post-doctoral researcher in the project “Evolving human minds, Behavior and Subsistence during the Middle to Upper Pleistocene in Tanzania” awarded to Dr Pastory M. Bushozi and funded by the Volkswagenstiftung.

January 2014 – October 2015	Research assistant (MA-degree) in the ROCEEH-Project (The role of culture in early expansion of humans) of the Heidelberg Academy of Science.
May 2012 – December 2013	Research assistant (BA-degree) in the ROCEEH-Project (The role of culture in early expansion of humans) of the Heidelberg Academy of Science.
May – October 2011	Student assistant in the DFG-Project “Dosariyah Archaeological Research Project” (DARP) of Dr Philipp Drechsler.

Grants

2023 -2025	Fritz Thyssen Grant: “Investigating the relationship between human behavioral change and environmental conditions during the Late Pleistocene in the Interior of KwaZulu-Natal, South Africa” (120.000 € - “Eigenanteil”) PI: Dr Gregor Bader, Dr Manuel Will
2024	Baden-Württemberg Foundation: Student visiting scholarship for 3 African students: (18.000 €). PI: Dr Gregor Bader.
2022 - 2024	DFG Grant: “Pigment Procurement Use and Meaning in Prehistoric Eswatini (PIPUMPE)” Grant agreement number: BA6479-2/4 (108.090 € - “Eigenanteil”). PI: Dr Gregor Bader.
2022	Baden-Württemberg Foundation: Student visiting scholarship for 5 African students: (32.000 €). PI: Dr Gregor Bader.
2019 - 2021	DFG Grant: “The oldest ochre mine in the World? Re-dating the Lion Cavern and provenience analysis of ochre artifacts from the Stone Age of Eswatini” Grant agreement number: BA6479-2/1 (82.772 € - “Eigenanteil”). PI: Dr Gregor Bader.
2020	Erika & Walter Datz Grant: Conducting an international workshop entitled: “OPUMPA – Ochre Procurement, Use and Meaning in Prehistoric Africa” (5.000 € - “Eigenanteil”). PI: Dr Gregor Bader.

Scholarships

October 2015 – October 2017	Doctoral dissertation grant in the research project “The Evolution of Modern Human Behavior” under the state of Baden-Württemberg (Landesgraduiertenförderungsgesetz).
July 2014	PAA student travel grant for the participation at the “14th Congress of the Pan African Archaeological Association of Prehistory and Related Studies scientific program” in Johannesburg, South Africa.

Oral presentations and poster (exemplary)

- June 2023
Oral presentation
Bader, G.D., Mabuza, A., Price-Williams, D., Will, M., Conard, N.J. *On the persistence of Middle Stone Age technologies to 30.000 and beyond* at the Society for Africanist Archaeologists (SAfA) in Houston, Texas, US.
- September 2022
Oral presentation
Bader, G.D., Riedesel, S., Velliky, E., Linstädter, J., MacDonald, B. *The oldest ochre mine in the world – new ages for the Lion Cavern in Eswatini and implications for human behavioral evolution during the Middle Stone Age in southern Africa* at the 12th annual ESHE conference in Tübingen, Germany.
- August 2022
Oral presentation
Bader, G. D., Mabuza, A., Price Williams, D., Will, M., *Rethinking the MSA/LSA transition in southern Africa – A perspective from the highveld of Eswatini* at the 16th Congress of the PanAfrican Archaeological Association of Prehistory and Related Studies in Zanzibar.
- April 2022
Oral presentation
Bader, G. D. and Linstädter, J., *Over 60 years of archaeological research in Eswatini – Old paths and new perspectives* at the 1st international workshop of ‘Ochre Procurement, Use and Meaning in Prehistoric Africa (OPUMPA)’ in Eswatini.
- September 2021
Oral presentation
Bader, G. D., Will, M., Mabuza, A., Forester, B., MacDonald, B., Velliky, E., Linstädter, J., *Revisiting Sibebe Rock Shelter in Eswatini. New insights on the nature and timing of the final MSA in southern Africa.* at the UISPP, XIX conference, online.
- August 2021
Oral presentation
MacDonald, B. L., Velliky, E. C., Linstädter, J., Ehlers, L., Bader, G. D., *Ochre provenance in Eswatini: Geochemical insights on MSA LSA ochre procurement.* at the 24th Biennial Meeting of the Society of Africanist Archaeologists (SAfA), Online.
- Oral presentation
Velliky, E. C., MacDonald, B. L., Linstädter, J., Ehlers, L., Bader, G. D., *Archaeological, archaeometric and ethnographic perspectives on ochre behaviours in Eswatini* at the 24th Biennial Meeting of the Society of Africanist Archaeologists (SAfA), Online.

- April 2021
Oral presentation
Bader et al., *Regional perspective on the final MSA in KwaZulu-Natal, South Africa* at the 58th annual meeting of the Society for American Archaeology (SAA), Online.
- June 2020
Oral presentation
Bader et al., *The final MSA of KwaZulu-Natal. Umbeli Belli in its regional context* at the conference 'Cultural dynamics of the Middle Stone Age in coastal and interior contexts of southern Africa' in Tübingen.
- May 2019
Oral presentation
Sommer et al. 2019., *Prediction of palaeolithic sites in KwaZulu-Natal, South Africa using remote sensing, digital landscape analysis and statistical classification* at Computer Applications in Archaeology Conference in Kraków.
- December 2018
Oral presentation
Bader et al., *Preliminary results on the late Pleistocene occupation of Iron Pig Rock Shelter in Mpumalanga, South Africa* at the Meetings of Modern Air and African Prehistory conference in Paris, France.
- June 2018
Oral presentation
Bader et al., *Umbeli Belli and its significance for the final MSA of southern Africa* at the UISPP, XVIIIe conference in Paris, France.
- March 2018
Oral presentation
Bader et al., *The lithic technology of the final MSA assemblages from Umbeli Belli, KwaZulu-Natal* at the University of Witwatersrand, South Africa.
- June 2017
Oral presentation
Bader et al., *It's all about shape, point morphology and diagnostic features of the final MSA at Umbeli Belli, KwaZulu-Natal* at the Department of Early Prehistory and Quaternary ecology, University of Tübingen.
- July 2016
Oral presentation
Bader et al., *Umbeli Belli Rock Shelter in KwaZulu-Natal and its implications for our understanding of lithic technology and raw material economy during the MSA* at the 23rd Biennial Meeting of the Society of Africanist Archaeologists (SAfA) in Toulouse, France.
- Poster
Bader et al., *Implications of spatial and temporal variation in point technology in KwaZulu-Natal during the MSA* at the 23rd Biennial Meeting of the Society of Africanist Archaeologists (SAfA) in Toulouse, France.

- Oral presentation
Bader et al., *Umbeli Belli Rock Shelter in KwaZulu-Natal, South Africa. Current results from the Tübingen excavation in 2016* at the Department of Early Prehistory and Quaternary ecology, University of Tübingen, Germany.
- June 2016 Oral presentation
Bader et al., *The Middle Stone Age of KwaZulu-Natal, New insights from Holley Shelter, Sibudu and Umbeli Belli* at the Ruhr University in Bochum, Germany.
- September 2015 Poster
Bader et al., *The Middle Stone Age lithic assemblages of Umbeli belli Rock Shelter in KwaZulu-Natal, South Africa* at the 5th annual meeting of the European Society for the study of Human Evolution (ESHE) in London, Great Britain.
- July 2015 Oral presentation
Bader et al., *Change and Continuity in the organization of lithic technology during the later Middle Stone Age of KwaZulu-Natal (South Africa)* at the Roceeh 'Expansions' conference in Frankfurt, Germany.
- September 2014 Oral presentation
Bader et al., *Holley Shelter, regional signatures in the MSA of KwaZulu-Natal* at the workshop 'Contextualizing technological change and cultural evolution in the MSA of Southern Africa' in Tübingen, Germany.
- July 2014 Oral presentation
Bader et al., *Holley Shelter, New results on the variability of the South African Middle Stone Age* at the 14th Congress of the Pan African Archaeological Association of Prehistory and Related Studies scientific program in Johannesburg, South Africa.
- September 2013 Poster
Bader et al., *Holley Shelter - How an old excavation contributes to our understanding of behavioral variability within the MSA* at the 3rd annual meeting of the European society for the study of human evolution (ESHE) in Vienna, Austria.

Publications

Published peer review articles

- 2024 **Bader, G.D.,** Val, A., Gevers, E., Rhodes, S.E., Stahl, N., Woodborne, S., Will, M. 2024. Behind the waterfall - Interdisciplinary results from Holley Shelter and their implications for understanding human behavioral patterns at the end of the Middle Stone Age in southern Africa, Quaternary Science Reviews 331,108633.

2023

Blessing, M.A., Conard, N.J., **Bader, G.D.** 2023. Cultural developments between the final MSA and the Robberg at Umbeli Belli, South Africa. *Journal of Paleolithic Archaeology*.

Zastrow J., Affinito, S., **Bader, G. D.**, Mentzer, S. M. 2023 Twelfth annual meeting of the European Society for the Study of Human Evolution. *Evolutionary Anthropology*. 2023;1-3. doi:10.1002/evan.21973

2022

Bader, G. D. and Will, M. 2022. 70 Years Later – New research at Holley Shelter, a Middle and Later Stone Age Site in KwaZulu-Natal, South Africa. *S Afr J Sci*. 2022;118(11/12)

Bader, G. D., Mabuza, A., Price Williams, D., Will, M. 2022. Rethinking the Middle to Later Stone Age transition in southern Africa. A perspective from the highveld of Eswatini. *Quaternary Science Reviews* 286, 107540.

Bader, G. D., Wadley, L., Sommer, C., Conard, N. J., 2022. The final MSA of eastern South Africa, a comparative study between Umbeli Belli and Sibhudu. *AZANIA*. DOI: 10.1080/0067270X.2022.2078553

Bader, G. D., Schmid, V., Kandel, A. W. 2022. *The Middle Stone Age of South Africa*. Oxford University Press.

Will, M., **Bader G. D.**, Sommer, C., Cooper, A., Green, A. 2022. Coastal adaptations on the eastern seaboard of South Africa during the Pleistocene and Holocene? Current evidence and future perspectives from archaeology and marine geology. *Front. Earth Sci*. 10:964423

Blessing, M. A., Conard, N., **Bader, G. D.** 2022. Investigating the MIS2 microlithic assemblage of Umbeli Belli rock shelter and its place within the chrono-cultural sequence of the LSA along the east coast of southern Africa. *African Archaeological Review*.

2021

Bader, G. D., Forrester, B., Ehlers, L, Velliky, E., MacDonald, B.L., Linstädter, J., 2021. The forgotten kingdom. New investigations in the prehistory of Eswatini. *Journal of Global Archaeology*, 1-8.

Bader, G. D., Bushozi, P., Will, M., Schmid, V., Val, A., Blessing, M., Schmidt, P., Conard, N., 2021. Investigating the 1930s Kohl-Larsen collection from the Lake Eyasi Basin, Tanzania. *Mitteilungen der Gesellschaft für Urgeschichte* 29, 93-103.

- 2020 **Bader, G. D.**, Linstädter, J., Schoeman, M. H., 2020. Uncovering the Late Pleistocene LSA of Mpumalanga Province, South Africa: Early results from Iron Pig Rock Shelter. *Journal of African Archaeology* 18, 1-19.
- 2018 **Bader, G. D.**, Tribolo, C., Conard, N. J., 2018. A return to Umbeli Belli: New insights of recent excavations and implications for the final MSA of eastern South Africa. *Journal of Archaeological Science: Reports* 21, 733-757.
- 2017 **Bader, G. D.** and Will, M., 2017. Recent research on the MSA in KwaZulu-Natal, South Africa. *Mitteilungen der Gesellschaft für Urgeschichte* 26, 79-108.
- 2016 **Bader, G. D.**, Cable, C., Lentfer, C. Conard, N. J., 2016. Umbeli Belli Rock shelter, A forgotten piece from the puzzle of the Middle Stone Age in KwaZulu-Natal, South Africa. *Journal of Archaeological Science: Reports* 9, 608-622.
- 2015 **Bader, G. D.**, Will, M., Conard, N. J., 2015. The lithic technology of Holley Shelter, KwaZulu-Natal, and its place within the MSA of southern Africa. *SAAB* 70, 202; 149-165.
- 2014 Conard, N. J., **Bader, G. D.**, Schmid, V. C., & Will, M., 2014. Bringing the Middle Stone Age into Clearer Focus. *Mitteilungen der Gesellschaft für Urgeschichte* 23, 121-127.
- Will, M., **Bader, G. D.**, Conard, N. J., 2014. Characterizing the Late Pleistocene MSA Lithic Technology of Sibudu, KwaZulu-Natal, South Africa. *PLoS ONE* 9(5): e98359. doi:10.1371.

Peer reviewed book chapters in edited volumes

- Bader, G. D.** & Conard, N. J., 2023. Holley Shelter. In: Willkins, J., Beyin, A. Wright, D., Bouzouggar, A. Olszewski, D. (eds.), *Handbook of Pleistocene Archaeology of Africa: Hominin Behavior, Geography, and Chronology*.
- Bader, G. D.**, Linstädter, J., Schoeman, A., 2023. Iron Pig. In: Willkins, J., Beyin, A. Wright, D., Bouzouggar, A. Olszewski, D. (eds.), *Handbook of Pleistocene Archaeology of Africa: Hominin Behavior, Geography, and Chronology*.
- Bader, G. D.** & Conard, N. J., 2023. Umbeli Belli. In: Willkins, J., Beyin, A. Wright, D., Bouzouggar, A. Olszewski, D. (eds.), *Handbook of Pleistocene Archaeology of Africa: Hominin Behavior, Geography, and Chronology*.

Published field reports

Will, M. & **Bader, G. D.** 2020. Neue Grabungen zur Erforschung des Paläolithikums im Ermstal. AABW 2020, 82-84.

Wolf, S., **Bader, G. D.**, Will, M. 2021. Neue Ausgrabungen an der Barnberghöle bei Neuffen. AABW 2021, 92-94.

Popular science and outreach (exemplary)

2023

Newspaper article: The trail of the red rust that leads to the beginning of human culture. Daily Maverick, February 2023

2022

Popular scientific publication
Bader, G. D., MacDonald, B., Velliky, E., Forrester, B., Linstädter, J., 2022. *Älteste Ockerminerale der Welt? Lion Cavern im Süden Afrikas*. Archäologie in Deutschland – Weltweit 3, 2022.

2021

Oral presentation
Bader, *New archaeological research at the Middle Stone Age site Holley Shelter on Fountainhill Estate* at the 5th Fountainhill's research symposium, Wartburg, South Africa.

Oral presentation
Bader, *New stone Age research in the Kingdom of Eswatini* at Waterford High School, Mbabane, Eswatini.

2020

TV-Interview
Auf den Spuren der Steinzeit im Ermstal. 21.08.2020 at Südwestdeutscher Rundfunk (SWR).

TV-Interview
Ausgrabungen in der Schachtfelshöhle. 23.08.2020 at Regio TV (RTF1).

2020

Oral presentation
Bader, *Eswatini. Das vergessene Königreich und seine Bedeutung für die Steinzeitforschung im südlichen Afrika* at the public lecture series of the Museum of the University of Tübingen, Germany.

2019

Oral presentation
Bader, *Tübinger Urgeschichtsforschung im südlichen Afrika* at the public lecture series of the Museum of the University of Tübingen, Germany.

Oral presentation
Bader, *Archaeological research at the Middle Stone Age site Umbeli Belli, KwaZulu-Natal* at the Rotary society Scottburgh, South Africa.

2018

Oral presentation
Bader et al., *The MSA of southern Africa* at the University of Swaziland.

2016 Oral presentation
Bader et al., *Umbeli Belli, a forgotten piece from the Stone Age of KwaZulu-Natal* at the Durban Archaeological Society in Durban, South Africa.

2015 Educational talk
Bader et al., *Sibudu, Cultural heritage and a site of great significance for the understanding of human evolution* at Pelham Highschool in Pietermaritzburg, South Africa.

Review activities for

Journals

Quaternary Science Reviews
Journal of Archaeological Science: Reports
Journal of African Archaeology
African Archaeological Review
Archaeological and Anthropological Sciences
Journal of Paleolithic Archaeology

Organisations

UNESCO
DFG (German research foundation)
Leakey foundation
National Science Centre, Poland

Fieldwork

April 2024	Excavation at Muti Muti Shelter, Eswatini (Iron Age, LSA) Field director: Dr Gregor Bader and Dr Jörg Linstädter
February 2024	Excavation at Holley Shelter, South Africa (Middle Stone Age) Field director: Dr Gregor Bader
April 2023	Excavation at Muti Muti Shelter, Eswatini (Iron Age, LSA) Field director: Dr Gregor Bader and Dr Jörg Linstädter
February 2023	Excavation at Holley Shelter, South Africa (Middle Stone Age) Field director: Dr Gregor Bader
August 2022	Excavation at Njarasa and Mumba Cave, Tanzania (Middle and Later Stone Age) Field director: Dr Pastory Bushozi; Pof. Nicholas Conard and Dr Gregor Bader
February 2022	Excavation at Holley Shelter, South Africa (Middle Stone Age) Field director: Dr Gregor Bader

September 2021	Excavation at Barnberghöhle, Germany (Neolithic) Field director: Dr Gregor Bader
August 2020	Excavation at Schachtfels and Hofsteigefels, Germany (Medieval) Field director: Dr Gregor Bader
January – March 2020	Excavation at Umbeli Belli, South Africa (Middle Stone Age and Later Stone Age) Field director: Dr Gregor Bader
October 2019	Survey and test excavation at Lion Cavern, eSwatini (Middle Stone Age and Later Stone Age) Field director: Dr Gregor Bader and Dr Jörg Linstädter
August 2019	Excavation at Mumba Cave, Tanzania (Middle Stone Age and Later Stone Age) Field director: Dr Pastory Bushozi and Dr Gregor Bader
January – April 2019	Excavation at Umbeli Belli, South Africa (Middle Stone Age and Later Stone Age) Field director: Dr Gregor Bader
August – September 2018	Excavation at Mumba Cave, Tanzania (Middle Stone Age and Later Stone Age) Field director: Dr Pastory Bushozi and Dr Gregor Bader
July – August 2018	Archaeological Survey in Eswatini and Mozambique Field director: Dr Jörg Linstädter
January – March 2018	Excavation at Umbeli Belli, South Africa (Middle Stone Age and Later Stone Age) Field director: Dr Gregor Bader
December 2017	Excavation at Iron Pig Shelter, South Africa (Later Stone Age and Iron Age) Field director: Dr Jörg Linstädter, Prof. Alex Schoeman, Dr Gregor Bader
August 2017	Excavation at Iron Pig Shelter, South Africa (Later Stone Age and Iron Age) Field director: Dr Jörg Linstädter, Prof. Alex Schoeman, Dr Gregor Bader

February – March 2017	Excavation at Umbeli Belli, South Africa (Middle Stone Age and Later Stone Age) Field director: Dr Gregor Bader
January - February 2016	Excavation at Umbeli Belli, South Africa (Middle Stone Age and Later Stone Age) Field director: Dr Gregor Bader
February – May 2015	Excavation at Sibhudu, South Africa. (Middle Stone Age) Field director: Prof. Nicholas Conard
July – August 2015	Excavation at Kohlheu Abri, Southern Germany (Mesolithic and Neolithic) Field director: Prof. Joachim Kind, Thomas Beutelsbacher
February – April 2014	Excavation at Sibhudu, South Africa. (Middle Stone Age) Field director: Prof. Nicholas Conard
July – August 2014	Excavation at Frauenfels, Southern Germany (Neolithic) Field director: Prof. Joachim Kind, Thomas Beutelsbacher
February – April 2013	Excavation at Sibhudu, South Africa. (Middle Stone Age) Field director: Prof. Nicholas Conard
June – August 2012	Excavation at Hohlenstein-Stadel, Southern Germany (Middle and Upper Palaeolithic) Field director: Prof. Joachim Kind, Thomas Beutelsbacher
February – April 2012	Excavation at Sibhudu, South Africa (Middle Stone Age) Field director: Prof. Nicholas Conard
September 2011	Excavation at Krems-Wachtberg, Austria (Upper Palaeolithic) Field director: Prof. Christine Neugebauer-Maresch, Dr Thomas Einwögerer
February – March 2011	Excavation at Dosariyah, Saudi Arabia (Middle Neolithic) Field director: Dr Philipp Drechsler
July – September 2010	Excavation at the Grotte de la Verpillière I & II, France (Middle and Upper Palaeolithic) Field director: Prof. Harald Floss

February – April 2010

Excavation at Dosariyah, Saudi Arabia
(Middle Neolithic)
Field director:
Dr Philipp Drechsler

October 2009

Water screening and sorting of sediments from
Vogelherd Cave, Southern Germany
(Upper Palaeolithic)
Field director:
Prof. Nicholas Conard

August – September 2009

Excavation at the Grotte de la Verpillière I & II,
France (Middle and Upper Palaeolithic)
Field director:
Prof. Harald Floss

August 2009

Water screening and sorting of sediments from
Vogelherd cave, Southern Germany
(Upper Palaeolithic)
Field director:
Prof. Nicholas Conard

Languages

- German (Native speaker)
- English (Advanced-proficient)
- French (Basic)
- Latin (proficiency certificate)

Technical skills

- 3D Scanning (Artec Spider/Micro)
- 3D Structure from motion (Agisoft Metashape)
- High Speed Camera recording (Photron)
- 3D printer (Formlabs)
- Adobe Photoshop
- Adobe Illustrator
- Microsoft Office (Access, Excel, Word, Power point)
- QGIS
- JMP
- PAST
- ImageJ
- Windows EDM
- Drawing of lithic artifacts
- Artefact photography
- Leica, theodolite
- Windows EDM (data collection program for use with electronic theodolites and total stations by H. L. Dibble and P. S. McPherron)

