Thomas Rose

Researcher in the DFG funded project "Implementation of the Global Lead Isotope Database GlobaLID" Forschungsbereich Archäometallurgie, Deutsches Bergbau-Museum Bochum, Bochum, Germany thomas.rose@daad-alumni.de +49 1522 3176524 archaeothommy copper-smelting.com

Education¹

2019 – 2023	PhD cum laude in Archaeology, Double degree: Ben-Gurion University of the Negev, Sapienza -
	University of Rome
	 Project ESR5 of the Marie Sklodowska Curie Action Innovative Training Network (MSCA-ITN)
	European Joint Doctorate in Archaeological and Cultural Heritage Materials Science (ED-ARCHMAT)
	 Thesis title: "The emergence of Copper Pyrotechnology in Western Asia"
	 Supervisors: Yuval Goren (BGU), Francesca Balossi Restelli (Sapienza)
2015 – 2018	M. Sc. with distinction in Geosciences (Specialisation: Mineralogy), Goethe University FrankfurtMark: 1.0
	 Thesis title: "Assessment of Fe and O stable Isotope Fractionation in Bog Ores, during Smelting and Corrosion of Iron Objects"
	 Supervisors: Horst R. Marschall (Frankfurt), Sabine Klein (DBM, Bochum)
2013 – 2015	B. Sc. in Geosciences, Goethe University Frankfurt
	• Mark: 1.4
	 Thesis title: "Copper and Lead Isotopes Analyses of Portuguese Ores"
	Supervisors: Sabine Klein, HMichael Seitz
2009 - 2012	B. A. in Pre- and Protohistory and Archaeology of the Middle Ages, University of Tübingen
	 Minor subject Science-based archaeology
	• Mark: 1.8
	Thesis title: "Copper Isotope Fractionation during the Prehistoric Smelting Process with Ores from
	Cabrières (Southern France)"
	Supervisor: Ernst Pernicka
2001 – 2008	Abitur, Fläming-Gymnasium Belzig
	• Mark: 1.3

¹In the German system mark 1 is the best achievable and mark 4 equals "pass"

Research Experience

since 2024	 Deutsches Bergbau-Museum, Bochum, Researcher Project "GlobaLID - Building an interface between geochemistry and archaeometry to create a new research infrastructure with a global perspective" (DFG Project KL1259/17-1)
since 2019	ChronochRt - easy plotting of chronological charts with R Collaboration with: C. G. M. Girotto
2022 – 2024	Goethe University FrankfurtNFDI4Earth, Coordinator of the measure 3.3. "NFDI Commons"
2021 – 2024	Deutsches Bergbau-Museum Bochum (DBM), Visiting Researcher
2021	Metallography Laboratory, Dipartimento Ingegneria Chimica Materiali Ambiente, Sapienza - Universitá di Roma, Research stay (20 weeks, half-time) • Preparation and Analysis of metallographical sections
2018 – 2024	GlobaLID (Global Lead Isotope Database): Data infrastructure for lead isotope data in archaeology and interactive textbook
	 Preparation of prototypes as side-project
	Collaboration with: S. Klein, K. J. Westner, YK. Hsu (Core Team Members) and others
2018	 Deutsches Bergbau-Museum Bochum (DBM), Research Assistant Project: "Evaluating copper isotope fractionation in the metallurgical operational chain: an
	• Project. Evaluating copper isotope fractionation in the metallurgical operational chain, an experimental approach" (DFG-Project KL 1259/10-1)
	 Multiple research stays at the Laboratory for Experimental Archaeology, part of the
	Römisch-Germanisches Zentralmuseum Mainz (RGZM) for organization and conduct of the smelting experiments
2017	Laboratoire de Géologie de Lyon, ENS Lyon, Research stay (1 week)
	 Iron isotope analysis with MC-ICP-MS
2016 – 2018	Goethe University Frankfurt, Student Assistant
	 Mineralogical and geochemical characterisation of archaeological materials including isotope analyses
2016	 Institute for Nonferrous Metallurgy and Purest Materials, Research stay (3 weeks) Smelting experiments of oxidic copper ores with an induction furnace
2013 – 2015	Goethe University Frankfurt, Student Assistant
	 Geochemical characterization of archeological ceramics with pXRF
2011	University of Melbourne, Department of Earth Sciences, Research stay (6 weeks)
	Analysis of copper isotopes of ores and smelting products from Cabrières (Southern France)
2009	Rhenish State Museum Trier, Excavation worker (full-time position)
2008 – 2009	Rhenish State Museum Trier, Alternative Community Service
	Archaeological excavations
	 Re-organization of the internal site archive

Teaching Experience

2017 – 2018	Goethe University Frankfurt, Tutor
	Course: "General and Inorganic chemistry for minor subject students and teacher training"
2014 – 2018	Goethe University Frankfurt, Tutor
	Course: "Mathematics as minor subject"
2014 – 2015	Goethe University Frankfurt, Teaching Assistant
	 Self-designed seminar: "Research and use of geoscientific literature"
2012 – 2013	University of Tübingen, Tutor
	 Support of Science-Based Archaeology freshmen in Mathematics and Chemistry
2011 – 2012	University of Tübingen, Tutor
	 Support of Science-Based Archaeology freshmen in Mathematics and Chemistry

Funding

2023	Vereinigung von Freunden und Förderern der Goethe-Universität
	Travel bursary for the summer school 2023 of NADAC, EUR 450
2022 – 2023	NFDI4Earth EduPilot "Teaching lead isotope geochemistry and application in archaeometry (LIGA-A)",
	Co-PI: Sabine Klein, EUR 5568
2022	German Mineralgoical Society
	Travel bursary for the Congress of the Pan African Archaeological Association for Prehistory and
	Related Studies (PAA), 1000 €
2017	Hermann-Willkomm-Foundation
	 Travel bursary for the research stay at the ENS Lyon, EUR 165
2016 – 2017	Federal Ministry of Education and Research
	 Lead applicant for the German Geosciences Students Network for Experience and Interests:
	Conference of the German Student Councils of Geosciences 2016/2017, EUR 27000
2016	Hermann-Willkomm-Foundation
	 Travel bursary for the European Mineralogical Conference 2016, EUR 248
2015 – 2018	Studienstiftung des deutschen Volkes (German Academic Scholarship Foundation)
	 Living allowance and travel bursaries, EUR 17733
2014 – 2015	Goethe University Frankfurt, Fonds for innovative teaching concepts
	 Seminar: "Research and use of geoscientific literature", EUR 5040
2011	German Academic Exchange Service
	 RISEworldwide scholarship for the internship at the University of Melbourne, EUR 2550

Awards

2016	German Society for Pre- and Protohistory, Young Talent Award
2015	Mineralogical Society of America Undergraduate Prize
2013	University of Tübingen, Student Commitment Prize for the SchlossTagung (student-organized interdisciplinary conference)

Additional Training

since 2023	Alexandria Archive Institute / Open Context (AAI/OC), NEH Institute for Advanced Topics in the Digital
	Humanities "Networking Archaeological Data and Communities" (NADAC)
2017	Introduction to thermodynamic modeling with Theriak-Domino Software (1 day), Bremen
2016	EMU School on Mineral reaction kincetics (1 week), Vienna

Scientific and Academic Community Work

Reviewing activities

- Heritage Science
- Environmental Archaeology: The Journal of Human Palaeoecology
- Narodowe Centrum Nauki (National Science Center, Poland)
- Archaeometry
- Metalla

Conferences

2023	Many LIDs, but none matching the vessel: Developing a community standard for the publication and
	long-term archiving of lead isotope data in the archaeological sciences – A brainstorming workshop,
	Bochum
	Co-Organizer
2023	Historical Metallurgy Society Research in Progress Meeting 2023
	Organizer
2023	Goldschmidt2023
	• Session Chair: "Geoscientists' Little Helpers – small software tools with big impact" (Session 14c)
2023	MinWien2023
	Leading Session Chair: "Archaeometry"
	 Organiser and moderator of panel discussion "The Digital Future of Mineralogical Data"
2023	6th Workshop for Young Researchers in Archaeometry, Tübingen
	Member of the organizing commitee
2023	Historical Metallurgy Society Research in Progress Meeting 2023-2
	• Organizer
2022	28th Annual Meeting of the European Association of Archaeologists
	Leading Session Chair: "Isoscapes, Foodwebs and Provenance: Isotope Archaeology beyond
	Materials and Specialisations" (Session 217)
2022	5th Workshop for Young Researchers in Archaeometry, online
	Member of the organizing commitee
2022	GeoMinKöln2022
	• Leading Session Chair: "Shaping the future of geoscientific data: The path to FAIR data" (session
	11)
2021	Archäometrie und Denkmalpflege 2021
	 Organiser of the forum "Science Communication"
2021	4th Workshop for Young Researchers in Archaeometry, Évora/hybrid
	Member of the organizing commitee
2021	27th Annual Meeting of the European Association of Archaeologists
	Leading Session Chair: "How can metal corrosion products contribute to archaeological research?
	Archaeometallurgy@EAA Part 1" (Session 318)
	Session Chair: "Lost in translation? Interplay of archaeological theory and scientific practice as key
	for modern archaeological reasoning" (Session 245)
2020	26th Annual Meeting of the European Association of Archaeologists
	 Session chair: "How to promote inter- and transdisciplinarity in Mediterranean Archaeology?"
	(Session 480)
2019	5th International Young Earth Scientist Congress 2019, Berlin
	 Head of the organizing committee
2019	3rd Workshop for Young Researchers in Archaeometry, Nanterre
	Member of the organizing commitee
2018	"Mehr als Erz schmelzen: Wie wird ein Experiment Wissenschaft?" (More than smelting ore: Turning an
	experiment into science), Bochum
	• Organizer
2018	24th Annual Meeting of the European Association of Archaeologists
	 Leading session chair: "Archaeometallurgy in the 21st century" (Session 520)
2018	2nd Workshop for Young Researchers in Archaeometry, Berlin
	Member of the organizing committee
2017	1st Workshop for Young Researchers in Archaeometry, Frankfurt
	Co-organizer

Professional Associations

- since 2023 forschungsdaten.info (https://forschungsdaten.info), editor
- since 2022 Historical Metallurgy Society, Joint Hon. Editor (Technical)
- 2022 2024 ELN Finder (https://eln-finder.ulb.tu-darmstadt.de/home), editor
- 2022 2024 NFDI Section Metadata, Workgroup "Cookbooks, Guidance and Best Practices", Co-head
- 2022 2023 German Mineralogical Society (DMG), Accounting Officer
- 2021 2022 Digitalisation of "Historical Metallurgy" back issues
- 2017 2020 German Young Earth Scientists Chapter, President
- 2017 2019 German Geosciences Students Network for Experience and Interests, Treasurer
- 2017 2018 German Mineralogical Society (DMG), Student member of the advisory board
- 2015 2017 German Geosciences Students Network for Experience and Interests, Secretary
- 2014 2018 Student Accreditation Pool, external assessor
- 2014 2017 ASIIN (Agency for the accreditation of courses), Technical committee 11 (Geosciences, Geography), student representative
- 2014 2016 Student Accreditation Pool, deputy member of the Board of Appeal

University

2019 – 2022	MSCA ITN ED-ARCHMAT, ESR representative
2015 – 2018	Departmental Academic Council, Institute for Geosciences, Goethe University Frankfurt, student representative
2015 – 2016	Students Parliament, Goethe University Frankfurt, assistant secretary and member
2014 – 2015	Institute's Board of Directors, Institute for Geosciences, Goethe University Frankfurt, student representative
2013 – 2018	Board of Examiners, Institute for Geosciences, Goethe University Frankfurt, student representative
2013 – 2016	Internal Accreditation Commission, Goethe University Frankfurt, student representative
2011 – 2012	Board of Examiners, Institute for Archaeological Sciences, University of Tübingen, student representative
2011 – 2012	Departmental Academic Council, Department of Geosciences, University of Tübingen, student

Memberships

- Geowissenschaftliches Studentisches Erfahrungs- und Interessensnetzwerk (German Geosciences Students Network for Experience and Interests), honorary member
- Deutsche Mineralogische Gesellschaft (German Mineralogical Society)
- Gesellschaft für Naturwissenschaftliche Archäologie ARCHAEOMETRIE (German Society of Natural Scientific Archaeology and Archaeometry)
- European Association of Archaeologists

representative

- Historical Metallurgy Society
- Marie Curie Alumni Association
- Society for Archaeological Sciences
- Society for American Archaeology