

# Armando Falcucci

PALEOLITHIC ARCHAEOLOGIST

Department of Anthropology, New York University (USA) & ICArEHB, University of Algarve (Portugal)

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## Academic Appointments

### New York University & University of Algarve (ICArEHB)

[New York, USA](#)

GLOBAL MARIE SKŁODOWSKA-CURIE FELLOW

*Sept 2025–ongoing*

- Project “RStone: Population interconnectivity and technological trajectories in southern Africa during the MIS3 through replicable lithic analysis”
- Development of standardized methods in lithic analysis and quantitative comparison of MIS3 assemblages across southern Africa

### Eberhard Karls University of Tübingen

[Tübingen, Germany](#)

PRINCIPAL INVESTIGATOR

*Sept 2020–Aug 2025*

- DFG-funded project “Investigating Early Upper Paleolithic Technological Variability and Cultural Dynamics South of the Alps”
- Analysis of several Aurignacian sites across Italy, including Grotta del Fossellone, Grotta della Cala, Grotta di Castelcivita, Grotta di Fumane, Grotta Paglicci, and Riparo Bombrini

### Heidelberg Academy of Sciences and Humanities

[Tübingen, Germany](#)

RESEARCH ASSISTANT

*Jan 2020–Aug 2020*

- The Role of Culture in Early Expansions of Humans (ROCEEH)
- Synthesizing archaeological data into the ROCEEH Out of Africa Database (ROAD)

### Eberhard Karls University of Tübingen

[Tübingen, Germany](#)

POSTDOCTORAL RESEARCHER

*Sept 2019–Dec 2019*

- DFG Center for Advanced Studies “Words, Bones, Genes, Tools”
- Geometric morphometrics analysis of the Epigravettian lithic assemblage from Villabruna, Italy

### Heidelberg Academy of Sciences and Humanities

[Tübingen, Germany](#)

RESEARCH ASSISTANT

*April 2019–Aug 2019*

- The Role of Culture in Early Expansions of Humans (ROCEEH)
- Synthesizing archaeological data into the ROCEEH Out of Africa Database (ROAD)

### Eberhard Karls University of Tübingen

[Tübingen, Germany](#)

PHD CANDIDATE

*Dec 2015–Jan 2019*

- Doctoral research on the Upper Paleolithic sequence at Grotta di Fumane, northeastern Italy

## Fellowships & Funded Research Stays

### University of Toulouse Jean Jaurès

[Toulouse, France](#)

GUEST SCHOLAR

*Feb 2025–Feb 2025*

- Erasmus+ Research Mobility at the TRACES Laboratory, collaborating with Prof. F. Bon and Dr. N. Teyssandier
- Academic talks, roundtable discussions on the Aurignacian, and collaborative examination of French lithic assemblages

### University of Arizona

[Tucson, AZ, USA](#)

VISITING SCHOLAR

*Sept 2024–Nov 2024*

- Research collaboration with Prof. Steven L. Kuhn at the Department of Anthropology
- Comparative analysis of Early Ahmarian and Protoaurignacian assemblages

### Harvard University

[Cambridge, MA, USA](#)

RESEARCH SCHOLAR

*March 2023–June 2023*

- J-1 Research Scholar at the Peabody Museum of Archaeology and Ethnology
- Analysis of the Ahmarian and Upper Paleolithic lithic assemblages (layers XX-XIB) from Ksâr ‘Akil, Lebanon

### Hebrew University of Jerusalem

[Jerusalem, Israel](#)

VISITING RESEARCH FELLOW

*April 2015–July 2015*

- Recipient of the research grant awarded by Fondazione Atlante (Italy)
- Analysis of the Early Ahmarian and Levantine Aurignacian lithic assemblages from Kebara Cave and Hayonim Cave in collaboration with Prof. Anna Belfer-Cohen

## Education

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### Eberhard Karls University of Tübingen

PH.D. IN PREHISTORIC ARCHAEOLOGY

- Dissertation: A critical assessment of the Aurignacian: Insights from Fumane Cave in northern Italy
- Supervisors: Prof. Nicholas J. Conard, Ph.D. and Prof. Dr. Michael Bolus
- Grade: magna cum Laude

Tübingen, Germany

Dec 2015–Jan 2019

### University of Ferrara

M.A. IN QUATERNARY, PREHISTORY, AND ARCHAEOLOGY

- Thesis: Morpho-metric variability of Protoaurignacian retouched bladelets. The cases of Grotta di Fumane, Grotte d'Isturitz and Grotte des Cottés
- Supervisors: Prof. Marco Peresani and Prof. Marie Soressi (Leiden University, Netherlands)
- Grade: 110 cum laude

Ferrara, Italy

Nov 2013–July 2015

### University of Toulouse Jean Jaurès

ERASMUS+ EXCHANGE PROGRAMME

- Undertook courses in Prehistoric archaeology and lithic technology
- Carried out research on the Protoaurignacian lithic assemblages from Isturitz at TRACES (Travaux et Recherches Archéologiques sur les Cultures, les Espaces et les Sociétés, UMR 5608)
- Program mentors: Prof. François Bon and Dr. Nicholas Teyssandier

Toulouse, France

Sept 2014–Feb 2015

### University of Rome Tor Vergata

B.A. IN CULTURAL HERITAGE SCIENCES

- Thesis: The last Neanderthal: transition and extinction between Middle and Upper Paleolithic in the Iberian Peninsula
- Supervisor: Prof. Mario Federico Rolfo
- Grade: 110 cum laude

Rome, Italy

Oct 2010–Oct 2013

### University of Granada

ERASMUS EXCHANGE PROGRAMME

- Undertook courses in archaeology and ancient history
- Conducted bibliographic research on the Middle-to-Upper Paleolithic transition in the Iberian Peninsula
- Program mentor: Prof. Juan Antonio Cámara Serrano

Granada, Spain

Sept 2012–July 2013

## Professional Recognitions

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Shortlisted candidate for *Lecturer in Palaeolithic Archaeology and/or Paleoanthropology*, **University of Southampton** (United Kingdom), August 2025.

## Research Grants & Awards

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Total funding awarded: ~860,000€

### Erasmus+ Staff Mobility

EUROPEAN COMMISSION

- Awarded for a research stay at the University of Toulouse Jean Jaurès

1,400€

Feb 2025

### Research Grant

MARIE SKŁODOWSKA-CURIE ACTIONS (EUROPEAN UNION)

- Global MSCA Fellowship, Principal Investigator. Awarded an overall score of 100% for the project 'Rstone: Population Interconnectivity and Technological Trajectories in Southern Africa during MIS3 through Replicable Lithic Analysis'. This project will be carried out at New York University, in collaboration with Prof. J. Pargeter, and the University of Algarve (ICArEB), in collaboration with Prof. N. Bicho. A research secondment will be conducted at the University of Washington in partnership with Prof. B. Marwick. Project start date: September 2025

280,873€

Apr 2024

### Research Grant

DFG, GERMAN RESEARCH FOUNDATION (BONN, DE)

- Awarded for the extension of the project 'Investigating Early Upper Paleolithic Technological Variability and Cultural Dynamics South of the Alps' (Principal Investigator of the project)

179,362€

Feb 2024

### Research Grant

REINHARD-FRANK-STIFTUNG (HAMBURG, DE)

- Awarded for a research stay at Harvard University (Cambridge, Massachusetts, USA)

15,000€

Dec 2022

## Research Grant

DFG, GERMAN RESEARCH FOUNDATION (BONN, DE)

316,229€

Sep 2020

- Awarded for the project 'Investigating Early Upper Paleolithic Technological Variability and Cultural Dynamics South of the Alps' (Principal Investigator of the project)

## Research Grant

UNIVERSITY OF FERRARA (FERRARA, IT)

3,000€

Mar 2019

- Awarded for analyzing the Gravettian lithic assemblage from Fumane Cave

## Research Grant

BADEN-WÜRTTEMBERG MINISTRY OF SCIENCE, RESEARCH AND ART (DE)

49,200€

Dec 2015

- Awarded to conduct a doctoral research project at the University of Tübingen (Ph.D. Scholarship)

## Research Grant

FONDAZIONE ATLANTE (MILAN, IT)

4,000€

Apr 2015

- Awarded for a research stay at the Hebrew University of Jerusalem, Israel

## Publication Grants

OPEN ACCESS PUBLICATION FUND (TÜBINGEN, DE)

6,120€

2017-2025

- Awarded to cover the publication fees for four open access journals

## Travel Bursaries

EUROPEAN SOCIETY FOR THE STUDY OF HUMAN EVOLUTION (ESHE), INTERNATIONAL UNION OF PREHISTORIC AND PROTOHISTORIC SCIENCES (UISPP), UNIVERSITÄTSBUND TÜBINGEN E. V. (TÜBINGEN, DE)

1,100€

2014-2018

- Awarded to attend and present at five scientific conferences

## Erasmus+ Scholarship

EUROPEAN COMMISSION

3,000€

Sep 2014

- Study abroad program at the University of Toulouse Jean Jaurès, France

## Erasmus Scholarship

EUROPEAN COMMISSION

4,500€

Sep 2012

- Study abroad program at the University of Granada, Spain

## Peer-Reviewed Publications

28 total publications with **18** as first, senior, or corresponding author.

### 2026

Venditti, F., **Falcucci A.**, Schürch, B. (2026) On the exploitation and significance of bivalve shells at the Magdalenian site of Petersfels (Southwestern Germany) using an integrated approach. **Journal of Archaeological Method and Theory**, 33: 1. <https://doi.org/10.1007/s10816-025-09734-4>

### 2025

**Falcucci A.**, Bertola, S., Parise, M., Del Rio, M., Riel-Salvatore, J., Negrino, F. (2025) A crossroads between the Mediterranean and the Alps: Lithic technology, raw material procurement, and mobility in the Aurignacian of Riparo Bombrini. **Journal of Anthropological Archaeology**, 79: 101705. <https://doi.org/10.1016/j.jaa.2025.101705>

**Falcucci A.**, Kitagawa, K., Doyon, L., Tassoni, L., Higham, T., Dominici, C., Dreossi, D., Crezzini, J., Rossini, M., Benazzi, S., Martini, I., Boschini, F., Spagnolo, V., Moroni, A. (2025) Revisiting the Early Aurignacian in Italy: New Insights from Grotta della Cala. **Quaternary Science Reviews**, 366: 109471. <https://doi.org/10.1016/j.quascirev.2025.109471>

**Falcucci, A.** & Kuhn, S.L. (2025) Ex Oriente Lux? A quantitative comparison between northern Ahmarian and Protoaurignacian. **Journal of Human Evolution**.

**Falcucci A.**, Moroni, A., Negrino, F., Peresani, M., Riel-Salvatore, J. (2025) The Open Aurignacian Project: 3D scanning and the digital preservation of the Italian Paleolithic record. **Scientific Data**, 12: 1037. <https://doi.org/10.1038/s41597-025-05330-z>

Gennai, J., **Falcucci A.**, Niochet, V., Peresani, M., Richter, R., Soressi, M. (2025) Tracking the emergence of the Upper Palaeolithic in western Asia and Europe: a Multiple Correspondence Analysis of Protoaurignacian and southern Ahmarian lithics. **PLoS One**. (*Corresponding author*)

Kehl, M., Marcazzan, D., Miller, C.E., **Falcucci, A.**, Duches, R. & Peresani, M. (2025) The Upper Sedimentary Sequence of

Grotta di Fumane, Northern Italy: A Micromorphological Approach to Study Imprints of Human Occupation and Paleoclimate Change. **Geoarchaeology**, 40: e70000. <https://doi.org/10.1002/gea.70000>

Oertle A., Crezzini J., Moroni A., Ronchitelli A., Benazzi S., **Falcucci A.**, Marciani G., Rossini M., Martini I., Arrighi S., Higham T., Boschini F. & Douka K. (2025) New insights from the application of ZooMS to Late Pleistocene fauna from Grotta di Castelcivita, southern Italy. **Scientific Reports**, 15: 25906. <https://doi.org/10.1038/s41598-025-11355-6>

## 2024

**Falcucci A.**, Arrighi, S., Spagnolo, V., Rossini, M., Higgins, O.A., Muttillio, B., Martini, I., Crezzini, J., Boschini, F., Ronchitelli, A. & Moroni, A. (2024) A pre-Campanian Ignimbrite techno-cultural shift in the Aurignacian sequence of Grotta di Castelcivita, southern Italy. **Scientific Reports**, 14: 12783. <https://doi.org/10.1038/s41598-024-59896-6>

**Falcucci A.**, Giusti, D., Zangrossi, F., De Lorenzi, M., Ceregatti, L. & Peresani, M. (2024) Refitting the Context: A Reconsideration of Cultural Change among Early Homo sapiens at Fumane Cave through Blade Break Connections, Spatial Taphonomy, and Lithic Technology. **Journal of Paleolithic Archaeology**, 8: 2. <https://doi.org/10.1007/s41982-024-00203-0>

Higham T., Frouin M., Douka K., Ronchitelli A., Boscato P., Benazzi S., Crezzini J., Spagnolo V., McCarty M., Marciani G., **Falcucci A.**, Rossini M., Arrighi S., Dominici C., Deviese T., Schwenninger J.-L., Martini I., Moroni A. & Boschini F. (2024) Chronometric data and stratigraphic evidence support discontinuity between Neanderthals and early Homo sapiens in the Italian Peninsula. **Nature Communications**, 15: 8016. <https://doi.org/10.1038/s41467-024-51546-9>

## 2023

Lombao, D., **Falcucci A.**, Moos, E., Peresani, M. (2023) Unravelling technological behaviors through core reduction intensity. The case of the early Protoaurignacian assemblage from Fumane Cave. **Journal of Archaeological Science**, 160:105889. <https://doi.org/10.1016/j.jas.2023.105889> (co-first authorship)

Rossini, M., **Falcucci A.**, Dominici, C., Ronchitelli, A., Tomasso, A., Boschini, F. (2023) Application of 2D shape analysis to study Epigravettian lithic assemblages: assessing its analytical potential. **Acta IMEKO**, 12(4):1-8. <https://doi.org/10.21014/actaimeko.v12i4.1539>

## 2022

**Falcucci A.**, Karakostis, F.A., Göldner, D., Peresani, M. (2022) Bringing shape into focus: Assessing differences between blades and bladelets and their technological significance in 3D form. **Journal of Archaeological Science: Reports**, 43:103490. <https://doi.org/10.1016/j.jasrep.2022.103490>

**Falcucci A.**, Peresani, M. (2022) The contribution of integrated 3D model analysis to Protoaurignacian stone tool design. **PLoS One**, 17(5):e0268539. <https://doi.org/10.1371/journal.pone.0268539>

Göldner, D., Karakostis, F.A., **Falcucci A.** (2022) Practical and technical aspects for the 3D scanning of lithic artefacts using micro-computed tomography techniques and laser light scanners for subsequent geometric morphometric analysis. Introducing the StyroStone protocol. **PLoS One**, 17(4):e0267163. <https://doi.org/10.1371/journal.pone.0267163> (corresponding author)

Rossini, M., **Falcucci A.**, Dominici, C., Ronchitelli, A., Tomasso, A., Boschini, F. (2022) Analytical potential of 2D shape analysis to study Epigravettian lithic assemblages. **IMEKO TC-4**. <https://doi.org/10.21014/tc4-ARC-2022.011>

## 2021

Aleo, A., Duches, R., **Falcucci A.**, Rots, V., Peresani, M. (2021) Scraping hide in the early Upper Paleolithic: Insights into the life and function of the Protoaurignacian endscrapers at Fumane Cave. **Archaeological and Anthropological Sciences**, 13(8):137. <https://doi.org/10.1007/s12520-021-01367-4>

## 2020

Bataille, G., **Falcucci A.**, Tafelmaier, Y., Conard, N. J. (2020). Technological differences between Kostenki 17/II (Spitsynskaya industry, Central Russia) and the Protoaurignacian. Reply to Dinnis et al. (2019). **Journal of Human Evolution**, 146:102685. <https://doi.org/10.1016/j.jhevol.2019.102685>

**Falcucci A.**, Conard, N.J., Peresani, M. (2020) Breaking through the Aquitaine frame: A re-evaluation on the significance of regional variants during the Aurignacian as seen from a key record in southern Europe. **Journal of Anthropological Sciences**, 98:99-140. <https://doi.org/10.4436/JASS.98021>

Marciani, G., Ronchitelli, A., Arrighi, S., Badino, F., Bortolini, E., Boscato, P., Boschini, F., Crezzini, J., Delpiano, D., **Falcucci A.**, Figus, C., Lugli, F., Negrino, F., Oxilia, G., Romandini, M., Riel-Salvatore, J., Spinapolice, E., Peresani, M., Moroni, A., Benazzi, S. (2020) Lithic techno-complexes in Italy from 50 to 39 thousand years BP: an overview of cultural and technological changes across the Middle-Upper Palaeolithic boundary. **Quaternary International**, 551:123-149. <https://doi.org/10.1016/j.quaint.2019.11.005>

## 2019

**Falucci, A.** & Peresani, M. (2019) A pre-Heinrich Event 3 assemblage at Fumane Cave and its contribution for understanding the beginning of the Gravettian in Italy. **Quartär**, 66:135-154. [https://doi.org/10.7485/QU66\\_6](https://doi.org/10.7485/QU66_6)

Ioannidou, M., **Falucci, A.**, Röding, C., Kandel, A.W. (2019) Eighth Annual Meeting of the European Society for the Study of Human Evolution. **Evolutionary Anthropology Issues News and Reviews**, 28(2):52-54. <https://doi.org/10.1002/evan.21770>

## 2018

Caricola, I., Zupancich, A., Moscone, D., Mutri, G., **Falucci, A.**, Duches, R., Peresani, M., Cristiani, E. (2018) An integrated method for understanding the function of macro-lithic tools. Use wear, 3D and spatial analyses of an Early Upper Palaeolithic assemblage from North Eastern Italy. **PLoS One**, 13:e0207773. <https://doi.org/10.1371/journal.pone.0207773>

**Falucci, A.** (2018) Towards a renewed definition of the Protoaurignacian. **Mitteilungen der Gesellschaft für Urgeschichte**, 27:87-130.

**Falucci, A.** & Peresani, M. (2018) Protoaurignacian Core Reduction Procedures: Blade and Bladelet Technologies at Fumane Cave. **Lithic Technology**, 43:125-140. <https://doi.org/10.1080/01977261.2018.1439681>

**Falucci, A.**, Peresani, M., Roussel, M., Normand, C., Soressi, M. (2018) What's the point? Retouched bladelet variability in the Protoaurignacian. Results from Fumane, Isturitz, and Les Cottés. **Archaeological and Anthropological Sciences**, 10:539-554. <https://doi.org/10.1007/s12520-016-0365-5>

## 2017

**Falucci, A.**, Conard, N. J., Peresani, M. (2017) A critical assessment of the Protoaurignacian lithic technology at Fumane Cave and its implications for the definition of the earliest Aurignacian. **PLoS One**, 12(12): e0189241. <https://doi.org/10.1371/journal.pone.0189241>

## Non-Refereed Publications

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**Falucci, A.** (2019) The importance of re-evaluating the Aurignacian industry for understanding the Early Upper Paleolithic. 15th **Newsletter of The Role of Culture in Early Expansions of Humans** (ROCEEH).

## Open Science: Datasets, Code & 3D Scanning Protocols

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### 2025

**Falucci A.**, Bertola, S., Parise, M., Del Rio, M., Riel-Salvatore, J., Negrino, F. (2025) Research compendium for 'A cross-roads between the Mediterranean and the Alps: Lithic technology, raw material procurement, and mobility in the Aurignacian of Riparo Bombrini'. **Zenodo**, <https://doi.org/10.1016/j.jaa.2025.101705>

**Falucci, A.**, Gennai, J., Niochet, V., Peresani, M., Richter, J., & Soressi, M. (2025). Research Compendium for 'Tracking the emergence of the Upper Palaeolithic with Multiple Correspondence Analysis of Protoaurignacian and southern Ahmarian lithic assemblages'. **Zenodo**, <https://doi.org/10.5281/zenodo.14843409>

**Falucci A.**, Kitagawa, K., Doyon, L., Tassoni, L., Higham, T., Dominici, C., Dreossi, D., Crezzini, J., Rossini, M., Benazzi, S., Martini, I., Boschini, F., Spagnolo, V., Moroni, A. (2025) Research compendium for 'Revisiting the Early Aurignacian in Italy: New Insights from Grotta della Cala'. **Zenodo**, <https://doi.org/10.5281/zenodo.15430431>

**Falucci, A.** & Kuhn, S.L. (2025) Research compendium for 'Ex Oriente Lux? A quantitative comparison between northern Ahmarian and Protoaurignacian'. **Zenodo**. <https://zenodo.org/doi/10.5281/zenodo.16932274>

**Falucci, A.**, Negrino, F., Riel-Salvatore, J. (2025) The Open Aurignacian Project. Volume 4: Riparo Bombrini in north-western Italy. **Zenodo**. <https://doi.org/10.5281/zenodo.14731694>

**Falucci A.**, Moroni, A., Negrino, F., Peresani, M., Riel-Salvatore, J. (2025) Research compendium for 'The Open Aurignacian Project: 3D scanning and the digital preservation of the Italian Paleolithic record'. **Zenodo**, <https://doi.org/10.5281/zenodo.15131493>

Venditti, F., **Falucci A.**, Schürch, B. (2025) Research Compendium for 'On the exploitation and significance of bivalve shells at the Magdalenian site of Petersfels (Southwestern Germany) using an integrated approach'. **Zenodo**, <https://doi.org/10.5281/zenodo.15391822>

## 2024

**Falcucci, A.**, Arrighi, S., Spagnolo, V., Rossini, M., Higgins, O.A., Muttillio, B., Martini, I., Crezzini, J., Boschin, F., Ronchitelli, A. & Moroni, A. (2024) Research compendium for 'A pre-Campanian Ignimbrite techno-cultural shift in the Aurignacian sequence of Grotta di Castelcivita, southern Italy'. **Zenodo**, <https://doi.org/10.5281/zenodo.10639552>

**Falcucci, A.**, Giusti, D., Zangrossi, F., De Lorenzi, M., Ceregatti, L., Peresani, M. (2024) Research compendium for 'Re-fitting the Context: Revisiting the Aurignacian sequence at Fumane Cave through blade fragment connections, spatial taphonomy, and lithic technology'. **Zenodo**, <https://doi.org/10.5281/zenodo.10965413>

**Falcucci, A.** and Moroni, A. (2024) The Open Aurignacian Project. Volume 2: Grotta di Castelcivita in southern Italy. **Zenodo**. <https://doi.org/10.5281/zenodo.10631389>

**Falcucci, A.** and Moroni, A. (2024) The Open Aurignacian Project. Volume 3: Grotta della Cala in southern Italy. **Zenodo**. <https://doi.org/10.5281/zenodo.14165189>

## 2023

Lombao, D., **Falcucci, A.**, Moos, E., Peresani, M. (2023) Research compendium for 'Unravelling technological behaviors through core reduction intensity. The case of the early Protoaurignacian assemblage from Fumane Cave'. **Zenodo**. <https://doi.org/10.5281/zenodo.8212572>

## 2022

**Falcucci, A.** (2022) MicroStone: Exploring the capabilities of the Artec Micro in scanning stone tools. **protocols.io**. <https://doi.org/10.17504/protocols.io.81wgb67811pk/v1>

**Falcucci, A.** (2022) Research compendium for 'The contribution of integrated 3D model analysis to Protoaurignacian stone tool design'. **Zenodo**. <https://doi.org/10.5281/zenodo.6504415>

**Falcucci, A.**, Karakostis, F. A., Göldner, D., Peresani, M. (2022) Research compendium for 'Bringing shape into focus: Assessing differences between blades and bladelets and their technological significance in 3D form'. **Zenodo**. <https://doi.org/10.5281/zenodo.6368200>

**Falcucci, A.** and Peresani, M. (2022) The Open Aurignacian Project. Volume 1: Fumane Cave in northeastern Italy. **Zenodo**. <https://doi.org/10.5281/zenodo.6362149>

Göldner, D., Karakostis, F. A., **Falcucci, A.** (2022) StyroStone: A protocol for scanning and extracting three-dimensional meshes of stone artefacts using Micro-CT scanners V.3. **protocols.io**. <https://doi.org/10.17504/protocols.io.4r3l24d9qg1y/v3>

Göldner, D., Karakostis, F. A., **Falcucci, A.** (2022) Research compendium for 'Practical and technical aspects for the 3D scanning of lithic artefacts using micro-computed tomography techniques and laser light scanners for subsequent geometric morphometric analysis. Introducing the StyroStone protocol'. **Zenodo**. <https://doi.org/10.5281/zenodo.6365680>

## Teaching

I teach prehistoric archaeology, lithic technology, and 3D-based methods within the framework of the BA in **Prehistory and Medieval Archaeology** and the MSc program in **Archaeological Sciences and Human Evolution** at the **Institute for Archaeological Sciences** (University of Tübingen, Germany).

### Winter Term 2025/2026

ASHE 6f-2, ASHE 5, UFGAM\_MA\_6.3: *3D Applications in lithic analysis* (3 ECTS).

### Summer Term 2025

ASHE 6f-2, ASHE 5, UFGAM\_MA\_6.3: *3D Applications in lithic analysis* (3 ECTS).

ASHE-6f-1: *Stone Age Technology* (3 ECTS). Course held in collaboration with Prof. N.J. Conard.

### Winter Term 2024/2025

UFG-BA, UFG-MA, NWA: *Prehistory of Mediterranean Europe: late Neanderthals and modern humans* (3 ECTS).

### Summer Term 2024

ASHE 6f-2, ASHE 5, UFGAM\_MA\_6.3: *3D Applications in lithic analysis* (3 ECTS).

ASHE-6f-1: *Stone Age Technology* (3 ECTS). Course held in collaboration with Prof. N.J. Conard.

### Winter Term 2023/2024

UFG-BA, UFG-MA, NWA: *Prehistory of Mediterranean Europe: late Neanderthals and modern humans* (3 ECTS).

## Summer Term 2023

ASHE 6f-2, ASHE 5, UFGAM\_MA\_6.3: *3D Applications in lithic analysis* (3 ECTS).

ASHE-6f-1: *Stone Age Technology* (3 ECTS). Course held in collaboration with Prof. N.J. Conard.

## Summer Term 2022

UFG-BA, UFG-MA, NWA: *Prehistory of Mediterranean Europe: late Neanderthals and modern humans* (3 ECTS).

ASHE 6f-2, ASHE 5, UFGAM\_MA\_6.3: *3D Applications in lithic analysis* (3 ECTS).

ASHE-6f-1: *Stone Age Technology* (3 ECTS). Course held in collaboration with other colleagues from the University of Tübingen.

## Summer Term 2021

UFG-BA, UFG-MA, NWA: *Prehistory of Mediterranean Europe: late Neanderthals and modern humans* (3 ECTS).

## Workshops for Students

June 2025 – *Flintknapping and Palaeolithic Butchery*. Co-organized with Prof. Justin Pargeter (New York University) and Prof. Gillian Wong (University of Texas at El Paso) for international students participating in archaeological excavations at Boomplaas Cave, South Africa.

# Supervision & Mentoring

## Supervision of Bachelor's Theses

- **University of Tübingen, Germany** (in collaboration with Dr. Manuel Will). Thesis title: “*Evaluating the application of 3D modelling to lithic artefacts from the Middle Stone Age site of Jojosi 5 (KwaZulu-Natal, South Africa)*”. Defended: **June 2025**.

## Supervision of Master's Theses

- **University of Ferrara, Italy** (in collaboration with Prof. Marco Peresani). Thesis title: “*The contribution of bladelet break connections to assemblage integrity and use-wear analyses in the Protoaurignacian of Grotta di Fumane*”. Planned defense: **March 2026**.

## Additional Mentoring and Research Supervision

- **Cheng Liu (Emory University, USA)**. Supervised as part of the **Senckenberg Global Fellowship**. Project: “*Reconstructing the chronology of flake scar removals from high-resolution lithic 3D scans: A pilot project*”. Funded for 3 months (**May–July 2024**).
- Supervised **nine** student research assistants (**Wissenschaftliche Hilfskraft**) within the framework of the DFG project “*Investigating Early Upper Palaeolithic Technological Variability and Cultural Dynamics South of the Alps*”, from 2020 to 2025. Their responsibilities included assisting with lithic analysis, conducting experimental activities, and performing 3D scanning.

# Organization of Conference Sessions & Workshops

## 2026 (scheduled)

**Falcucci, A.** & Kovach, T. (2026) Toward an Integration of Quantitative Approaches in Lithic Analysis. 91st Annual Meeting of the **Society for American Archaeology (SAA)** (San Francisco, USA).

## 2025

**Falcucci, A.** & Peresani, M. (2025) Franco-Italian Aurignacian Roundtable: A two-day workshop at the **University of Ferrara**, in collaboration with the **University of Toulouse Jean Jaurès** (Ferrara, Italy).

**Falcucci, A.** & Riel-Salvatore, J. (2025) Variability within the Aurignacian: New Research Outlooks. 90th Annual Meeting of the **Society for American Archaeology (SAA)** (Denver, USA).

## 2023

Lombao, D., Rabuñal, J.R., **Falcucci, A.**, Le Bret, J.B., Tobalina-Pulido, L. (2023) Replicable Archaeology: Looking for Workflows and Data Management Strategies Fostering Data Reuse and Methodological Transferability in Archaeological Science. 29th Annual Meeting of the **European Association of Archaeologists (EAA)** (Belfast, Northern Ireland). Session #603.



## Conference Presentations

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### 2026 (scheduled)

**Falcucci, A.**, Bicho, N., Marwick, B. & Pargeter, J.H. (2026) Introducing the RStone Project: A Replicable Framework for Quantitative Lithic Analysis. 91st Annual Meeting of the **Society for American Archaeology (SAA)** (San Francisco, USA). *Podium Presentation*.

### 2025

**Falcucci, A.**, Becher, J., Mabuza, A., Möller, G., Bader, G. (2025) Continuity in ochre mining technology across the Middle and Later Stone Age of southernmost Africa: Three-dimensional insights from Lion Cavern (Eswatini). 27th Biennial Meeting of the **Society of Africanist Archaeologists (SAfA)** (Faro, Portugal). *Podium Presentation*.

**Falcucci, A.** & Kuhn, Steven L. (2025) An Eastern Mirage? A quantitative evaluation of the technological affinities between early Ahmarian and Protoaurignacian. **Paleoanthropology Society** Meeting (Denver, USA). *Podium Presentation*.

**Falcucci, A.** & Kuhn, Steven L. (2025) Convergent technological trajectories in early modern humans across the Mediterranean: Insights from the Ahmarian and Protoaurignacian. 15th Annual Meeting of the **European Society for the study of Human Evolution (ESHE)** (Paris, FR). *Podium Presentation*.

**Falcucci, A.**, Moroni, A., Negrino, F., Peresani, M., Riel-Salvatore (2025) Exploring Cultural Transmission Dynamics and Chrono-Cultural Variability in the Aurignacian: Insights from the Italian Peninsula. 90th Annual Meeting of the **Society for American Archaeology (SAA)** (Denver, USA). *Podium Presentation*.

Pargeter, J., Carr, A., Chase, B. Faith, T., **Falcucci, A.**, Mentzer, S., Loftus, E. (2025) The Middle to Later Stone Age transition at Boomplaas Cave. 27th Biennial Meeting of the **Society of Africanist Archaeologists (SAfA)** (Faro, Portugal). *Podium Presentation*.

Riel-Salvatore, J. & **Falcucci, A.** (2025) The Aurignacian as basic science in paleoanthropology. 90th Annual Meeting of the **Society for American Archaeology (SAA)** (Denver, USA). *Podium Presentation*.

Venditti, F., **Falcucci, A.**, Schürch, B. (2025) On the exploitation and significance of bivalve shells at the Magdalenian site of Petersfels (South Germany). 66th Annual Meeting of the Hugo Obermaier Society\*\* (Faro, Portugal). *Podium Presentation*.

### 2024

**Falcucci, A.**, Arrighi, S., Spagnolo, V., Rossini, M., Higgins, O.A., Muttillio, B., Martini, I., Crezzini, J., Boschini, F., Ronchitelli, A. & Moroni, A. (2024) Beneath the volcanic ashes: New insights from the Aurignacian layers of Grotta di Castelcivita in Southern Italy. 65th Annual Meeting of the **Hugo Obermaier Society** (Weimar, Germany). *Podium Presentation*.

**Falcucci, A.**, Gambassini, P., Moroni, A. (2024) Inter-regional population connectivity, not drastic environmental shifts, explains the development of the Aurignacian in southern Italy. 14th Annual Meeting of the **European Society for the study of Human Evolution (ESHE)** (Zagreb, Croatia). *Podium Presentation*.

**Falcucci, A.** & Moroni, A. (2024) Expedient Technological Behavior in the Aurignacian of Southern Italy. 89th Annual Meeting of the **Society for American Archaeology (SAA)** (New Orleans, USA). *Podium Presentation*.

Gennai, J., **Falcucci, A.**, Niochet, V., Peresani, M., Richter, J., Soressi, M. (2024) Comparability of lithic technologies results: insights from four Early Upper Palaeolithic assemblages. 30th Annual Meeting of the **European Association of Archaeologists (EAA)** (Rome, Italy). *Podium Presentation*.

Lombao, D., **Falcucci, A.** & Peresani, M. (2024) Exploring the Protoaurignacian technological variability at Fumane Cave (Italy) through core reduction intensity approaches. 30th Annual Meeting of the **European Association of Archaeologists (EAA)** (Rome, Italy). *Poster Presentation*.

### 2023

**Falcucci, A.** (2023) Searching for solid and replicable frameworks in stone tool analysis: A discussion surrounding recent achievements and standing challenges. **Advances in Human Evolution, Adaptation & Diversity (AHEAD)** (Tarragona, Spain). *Podium Presentation*.

**Falcucci, A.** & Lombao, D. (2023) Measuring reduction intensity in laminar cores: an experimental approach and archaeological application. 88th Annual Meeting of the **Society for American Archaeology (SAA)** (Portland, USA). *Podium Presentation*.

**Falcucci, A.**, Moroni, A., Negrino, F., Peresani, M., Riel-Salvatore, J., Ronchitelli, A. (2023) Investigating Aurignacian technological variability and population connectedness south of the Alps and along peninsular Italy. Annual **Paleoanthropology Society** Meeting (Portland, USA). *Podium Presentation*.



**Falcucci, A.** & Pargeter, J. (2023) Looking for an efficient workflow in the R programming language for replicable lithic quantitative analysis. 29th Annual Meeting of the **European Association of Archaeologists (EAA)** (Belfast, Northern Ireland). *Podium Presentation*.

Lombao, D. & **Falcucci, A.** (2023) Blade and bladelet cores in the Protoaurignacian: A new method for measuring reduction intensity. 64th Annual Meeting of the **Hugo Obermaier Society** (Aarhus, Denmark). *Poster Presentation*.

## 2022

**Falcucci, A.** (2022) Integrating 2D and 3D shape analysis in lithic technology: A discussion around a case study and future research perspectives. 49th Meeting of the **Computer Applications and Quantitative Methods in Archaeology** (Oxford, UK). *Podium Presentation*.

**Falcucci, A.**, Giusti, D., Zangrossi, F., De Lorenzi, M., Ceregatti, L., Peresani, M. (2022). Linking blades: a systematic refitting analysis of blade fragments from the Protoaurignacian sequence of Fumane Cave. 12th Annual Meeting of the **European Society for the study of Human Evolution (ESHE)** (Tübingen, DE). *Poster Presentation*.

**Falcucci, A.**, Karakostis, F. A., Göldner, D., & Peresani, M. (2022) Identifying and quantifying morphological separation between blade and bladelet productions through 3D shape analysis. 87th Annual Meeting of the **Society for American Archaeology (SAA)** (Chicago, USA). *Podium Presentation*.

Rossini, M., **Falcucci, A.**, Dominici, C., Ronchitelli, A., Tomasso, A., Boschin, F. (2022) Analytical potential of 2D shape analysis to study Epigravettian lithic assemblages. 4th IMEKO **International Conference on Metrology for Archaeology and Cultural Heritage** (Cosenza, Italy). *Podium Presentation*.

## 2021

**Falcucci, A.**, Karakostis, F. A., Göldner, D., & Peresani, M. (2021) Identifying and quantifying morphological separation between blade and bladelet productions through 3D shape analysis. 13th **International Symposium of Knappable Materials** (Online). *Podium Presentation*.

**Falcucci, A.**, and Peresani, M. (2021) Assessing the Gravettian evidence from Fumane Cave. 62nd Annual Meeting of the **Hugo Obermaier Society** for Quaternary Research and Archaeology of the Stone Age. *Podium Presentation*.

## 2019

**Falcucci, A.** (2019) The site of Fumane Cave in northern Italy. Formation processes, stratigraphy, and dating of the Protoaurignacian. Archéologie Alsace - ÄUQÖ Tübingen **CIERA Meeting** (Tübingen, DE). *Podium Presentation*.

**Falcucci, A.**, Conard, N. J., Peresani, M. (2019) A re-evaluation of the Protoaurignacian sequence at Fumane Cave in northern Italy. 61st Annual Meeting of the **Hugo Obermaier Society** for Quaternary Research and Archaeology of the Stone Age (Erkrath, DE). *Podium Presentation*.

## 2018

Aureli, D., Arrighi, S., Bortolini, E., Boscato, P., Boschin, F., Crezzini, J., **Falcucci, A.**, Delpiano, D., Figus, C., Moroni, A., Negrino, F., Peresani, M., Riel-Salvatore, J., Romandini, M., Ronchitelli, A., Spinapolice, E., Benazzi, S. (2018) Italian Peninsula between 45 and 39 ky ago: the sunset of the “old” and the dawn of the “new”? Let the lithic industries tell! XVIII **UISPP World Congress** (Paris, France). *Podium Presentation*.

**Falcucci, A.**, Conard, N. J., Peresani, M. (2018) Testing technological definitions: a critical assessment of the Protoaurignacian at Fumane Cave. XVIII **UISPP World Congress** (Paris, France). *Podium Presentation*.

**Falcucci, A.**, Conard, N. J., Peresani, M. (2018) The chrono-cultural narrative of the Fumanian Aurignacian supports the inapplicability of the Aquitaine Model on a supra-regional scale. 8th Annual Meeting of the **European Society for the study of Human Evolution (ESHE)** (Faro, PT). *Podium Presentation*.

## 2017

Bataille, G., Bolus, M., Conard, N. J., **Falcucci, A.**, Peresani, M., Tafelmaier, Y. (2017) The techno-typological variability of the European Aurignacian from a multi-regional and diachronic perspective. 59st Annual Meeting of the **Hugo Obermaier Society** for Quaternary Research and Archaeology of the Stone Age (Aurich, DE). *Podium Presentation*.

Peresani, M., Delpiano, D., Aleo, A., Duches, R., **Falcucci, A.**, Forte, M., Gennai, J., Nannini, N., Romandini, M., Terlatto, G. (2017) La transizione Neanderthal – Sapiens in Italia Nord-orientale: Ricerche dell’università di Ferrara. Annual Meeting of the **TourismA Society** for Archaeology and Tourism (Firenze, IT). *Poster Presentation*.

## 2016

**Falcucci, A.** & Peresani, M. (2016) New investigations on the Protoaurignacian lithic technology of Fumane Cave. 6th Annual Meeting of the **European Society for the study of Human Evolution (ESHE)** (Madrid, ES). *Poster Presentation*.

**Falcucci, A.**, Peresani, M., Roussel, M., Normand, C., Soressi, M. (2016) Protoaurignacian retouched bladelets: where do we stand? 59st Annual Meeting of the **Hugo Obermaier Society** for Quaternary Research and Archaeology of the Stone Age (Budapest, HU). *Poster Presentation*.

## 2014

Romandini, M., **Falcucci, A.**, Gurioli, F., Broglio, A. (2014) First European Anatomically Modern Humans and the “route of shells”: chronological and qualitative evidence from the Veneto plain region sites. XVII **UISPP World Congress** (Burgos, ES). *Poster Presentation*.


## Invited Talks & Departmental Seminars

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### 2026 (scheduled)

The University Museum, **University of Tokyo**. *Workshop title*: Cultural Evolution during the Middle-to-Upper Paleolithic Transition in the Levant and Surrounding Regions. *Tentative presentation title*: Tentative presentation title: The Ahmarian in the Context of the Development of the Early Upper Palaeolithic across the Mediterranean. Invited by **Prof. Seiji Kadowaki** and **Prof. Yoshihiro Nishiaki**.

### 2025

**Max Planck Institute of Geoanthropology**, Jena (Germany). *Title*: Unraveling technological convergence and complexity in the Early Upper Paleolithic: A Mediterranean perspective. *Symposium title*: Cutting Edge: Quantifying Complexity in Stone Tools . Invited by **Dr. Lucy Timbrell**.

Dipartimento di Studi Umanistici, **University of Ferrara**. *Title*: The Protoaurignacian and Early Aurignacian of Grotta di Fumane: assemblage integrity, lithic technology, and site-use strategies. Invited by **Prof. Marco Peresani**.

TRACES Laboratory, **University of Toulouse Jean Jaurès, France**. *Title*: Le Mirage Oriental : Une évaluation quantitative des affinités technologiques entre l’Ahmarien ancien et le Protoaurignacien. Invited by **Prof. François Bon & Dr. Nicolas Teyssandier**.

TRACES Laboratory, **University of Toulouse Jean Jaurès, France**. *Title*: Les dynamiques culturelles du Protoaurignacien et de l’Aurignacien ancien dans le sud des Alpes et sur la péninsule italienne. Invited by **Prof. François Bon & Dr. Nicolas Teyssandier**.

### 2024

Institut für Ur- und Frühgeschichte, **University of Cologne, Germany**. Prähistorisches Kolloquium. *Title*: A Tale of Caves, Volcanoes, and Stone Tools. The Aurignacian south of the Alps and across peninsular Italy. Invited by **Prof. Andreas Maier**.

### 2023

The Institute of Archaeology, **Hebrew University of Jerusalem, Israel**. *Title*: Bridging past behavior and modern technologies: Three-dimensional and experimental insights into the Aurignacian along peninsular Italy. Invited by **Dr. Ariel Malinsky-Buller**. *Online*.

Department of Anthropology, **Harvard University, USA**. *Title*: 3D visualization and analysis in lithic studies. Invited by **Dr. Kristine K. Richter**.

### 2022

African Paleosciences Laboratory, Department of Anthropology, **New York University, USA**. *Title*: A discussion surrounding 3D scanning technology for archaeological sciences. Invited by **Prof. Justin Pargeter**.

### 2020

Institut für Ur- und Frühgeschichte und Archäologie des Mittelalters, **University of Tübingen, Germany**. Kolloquium Ältere Urgeschichte. *Title*: A pre-Heinrich Event 3 assemblage at Fumane Cave, Northeast Italy. Invited by **Prof. Nicholas J. Conard**.

### 2019

Institut für Ur- und Frühgeschichte, **University of Cologne, Germany**. Prähistorisches Kolloquium. *Title*: Breaking through the Aurignacian frame: A re-evaluation of the archaeological record south of the Alps. Invited by **Prof. Jürgen Richter**.

DFG Center for Advanced Studies “Words, Bones, Genes, Tools: Tracking Linguistic, Cultural and Biological Trajectories of the Human Past”, **University of Tübingen, Germany**. Center Colloquium. *Title*: The first European archers? Review of Sano et al. 2019 (The earliest evidence for mechanically delivered projectile weapons in Europe, Nature Ecology and Evolution). Invited by **Prof. Hugo Reyes-Centeno** and **Prof. Katerina Harvati**.

2018

Institut für Ur- und Frühgeschichte und Archäologie des Mittelalters, **University of Tübingen, Germany**. Kolloquium Ältere Urgeschichte. *Title: A Chrono-cultural Narrative of the Fumanian Aurignacian*. Invited by **Prof. Nicholas J. Conard**.

2016

Dipartimento di Studi Umanistici, Sezione di Scienze Preistoriche e Antropologiche, **University of Ferrara, Italy**. Student seminar. *Title: L'Aurignaziano di Grotta di Fumane*. Invited by **Prof. Marco Peresani**.

2015

Institut für Naturwissenschaftliche Archäologie, **University of Tübingen, Germany**. INA Colloquium. *Title: The Protoaurignacian in the context of the Early Upper Paleolithic. Concepts, variability and possible technological convergences with the Early Ahmarian*. Invited by **Prof. Nicholas J. Conard**.

## Academic Service

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### Member of Doctoral Committee

- External Member of Doctoral Committee, **Universitat Rovira i Virgili**, Tarragona, Spain (**20 December 2021**). Thesis: “*Reducción y gestión volumétrica: aproximación a la variabilidad y evolución de las dinámicas de explotación durante el Pleistoceno inferior y medio europeo, a través de los conjuntos de Gran Dolina y Galería (Sierra de Atapuerca, Burgos) y de El Barranc de la Boella (La Canonja, Tarragona)*”, defended by **Dr. Diego Lombao Vázquez**.

### Grant Reviewer

- *Leakey Foundation Research Grant* (1)

### Peer Reviewer for Academic Journals

- *Advances in Archaeological Practice* (1)
- *Archeological and Anthropological Sciences* (3)
- *Comptes Rendus Palevol* (1)
- *Digital Applications in Archaeology and Cultural Heritage* (2)
- *Evolutionary Anthropology: Issues, News, and Reviews* (1)
- *IIPP Journal* (2)
- *Journal of Archaeological Science* (1)
- *Journal of Archaeological Science: Reports* (1)
- *Journal of Paleolithic Archaeology* (3)
- *Paleoanthropology* (1)
- *PCI (Peer Community In) Archaeology* (1)
- *PLoS ONE* (4)
- *Rivista di Scienze Preistoriche* (1)
- *Scientific Reports* (1)
- Reviewer for edited book chapters (3)

## Academic Affiliations & Memberships

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- Associated Researcher , Department of Geosciences, Early Prehistory and Quaternary Ecology Working Group, **Eberhard Karls University of Tübingen**, since Sept 2025
- Working Group Member, **COST Action MAiA – Artificial Intelligence Applications in Archaeology** , Working Group 2 (**WG2**): Digital Comparative Collections and AI Training Data, since 2025
- Member, Computer Applications and Quantitative Methods in Archaeology (**CAA**), since 2022
- Member, European Society for the Study of Human Evolution (**ESHE**), since 2016
- Member, Hugo Obermaier-Gesellschaft (**HOG**), since 2016
- Member, **Paleoanthropology Society**, since 2023
- Member, Society of Africanist Archaeologists (**SAfA**), since 2025
- Member, Society for American Archaeology (**SAA**), since 2022

## Archaeological Fieldwork & Lithic Analysis

I have actively participated in **archaeological excavations** across France, Germany, Israel, Italy, and South Africa. In addition to fieldwork, I have conducted extended research stays at universities and research institutions, focusing on the analysis of **lithic assemblages**. This work has included the study of key Paleolithic sites such as Brassempouy, Isturitz, Les Cottés, and Tuto de Camalhot (France); Hayonim Cave, Kebara Cave, and Manot Cave (Israel); Ksâr 'Akil (Lebanon); Boomplaas Cave (South Africa). In Italy, I have analyzed material from several major sites, including Grotta del Fossellone, Grotta della Cala, Grotta di Castelcivita, Grotta di Fumane, Grotta Paglicci, Riparo Bombrini, and Riparo Villabruna.

## Technical Skills

Coding Languages	Software	3D Scanners
LaTeX, R, R Markdown	Adobe CreativeCloud, Avizo, Cloud Compare, Geomagic Wrap, GitHub, IBM SPSS, Meshlab, Microsoft Office	Artec Micro, Artec Space Spider, EinScan Pro HD

## Additional Training & Professional Development

- 2025
- 2024
- 2022, 2023
- 2022
- 2022
- 2022
- 2022
- 2022
- 2022
- 2022
- 2022
- 2022
- 2021
- Interactive Web Apps with R Shiny** (Transmitting Science, Barcelona)
- Univariate and Multivariate Statistical Analyses with R** (Transmitting Science, Barcelona)
- Certificate Program in 'Science Communication and Media Competence'** (Graduate Academy, Tübingen)
- Introduction to Machine Learning** (Machine Learning in Science, University of Tübingen)
- Data Manipulation with R Tidyverse** (Transmitting Science, Barcelona)
- R's ggplot2** (Transmitting Science, Barcelona)
- R Programming Course** (Transmitting Science, Barcelona)
- Applying for a Marie Curie Postdoctoral Fellowship** (Yellow Research, Amsterdam)
- Strategic Career Planning in Academia** (Graduate Academy, Tübingen)
- Taking the Lead for Postdocs** (Graduate Academy, Tübingen)
- Advanced Agile Project Management for Researchers** (Graduate Academy, Tübingen)
- Principles of Grant Writing** (Graduate Academy, Tübingen)

## Languages

Skill	Italian	English	Spanish	French	German
Reading	Native	C2	C2	C2	B2
Writing	Native	C1	C1	B2	B2
Listening	Native	C2	C2	C1	B2
Speaking	Native	C1	C1	B2	B2

Common European Framework of Reference for Languages: A1/A2: Basic User. B1/B2: Independent User. C1/C2: Proficient User

**Note:** This is an R Markdown CV created with the **vitae** R package (version 0.5.4) by O'Hara-Wild and Hyndman (2023). More details about the package can be found at <https://CRAN.R-project.org/package=vitae>.