

# Armando Falcucci

POSTDOCTORAL RESEARCHER

Department of Geosciences, Eberhard Karls University of Tübingen, Tübingen, Germany

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## Professional Experience

### Eberhard Karls University of Tübingen

POSTDOCTORAL RESEARCHER

- DFG project "Investigating Early Upper Paleolithic Technological Variability and Cultural Dynamics South of the Alps" [↗](#)

Tübingen, Germany

Sept 2020–Present

### Heidelberg Academy of Sciences and Humanities

RESEARCH ASSISTANT

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

Tübingen, Germany

Jan 2020–Aug 2020

### Eberhard Karls University of Tübingen

POSTDOCTORAL RESEARCHER

- DFG Center for Advanced Studies "Words, Bones, Genes, Tools" [↗](#)

Tübingen, Germany

Sept 2019–Dec 2019

### Heidelberg Academy of Sciences and Humanities

RESEARCH ASSISTANT

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

Tübingen, Germany

April 2019–Aug 2019

### Hebrew University of Jerusalem

VISITING RESEARCH FELLOW

- Recipient of the research grant awarded by Fondazione Atlante (Italy)
- Research on the Early Ahmarian and Levantine Aurignacian from Kebara and Hayonim under the supervision of Prof. Anna Belfer-Cohen

Jerusalem, Israel

April 2015–July 2015

## Education

### Eberhard Karls University of Tübingen

PH.D. IN PALEOLITHIC ARCHAEOLOGY

- Dissertation: A critical assessment of the Aurignacian: Insights from Fumane Cave in northern Italy
- Supervisors: Prof. Nicholas J. Conard, PhD 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

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

Toulouse, France

Sept 2014–Feb 2015

### University of Rome Tor Vergata

B.A. IN CULTURAL HERITAGE SCIENCES

- Dissertation: 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 history
- Conducted bibliographic research on the Middle-to-Upper Paleolithic transition in the Iberian Peninsula
- Program supervisor: Prof. Juan Antonio Cámara Serrano

Granada, Spain

Sept 2012–July 2013

### 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>

### 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

**Falcucci, 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., **Falcucci, 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., **Falcucci, 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>

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

**Falcucci, 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>

**Falcucci, 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>

**Faluccci, 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

**Faluccci, 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).

## 3D-Scanning Protocols

**Faluccci, A.**, (2022) MicroStone: Exploring the capabilities of the Artec Micro in scanning stone tools. **protocols.io**. [dx.doi.org/10.17504/protocols.io.81wgb6781lpk/v1](https://doi.org/10.17504/protocols.io.81wgb6781lpk/v1)

Göldner, D., Karakostis, F. A., **Faluccci, A.**, (2022) StyroStone: A protocol for scanning and extracting three-dimensional meshes of stone artefacts using Micro-CT scanners V.2. **protocols.io**. [dx.doi.org/10.17504/protocols.io.4r3l24d9qg1y/v2](https://doi.org/10.17504/protocols.io.4r3l24d9qg1y/v2)

## Open Access Repositories

**Faluccci, A.** (2022) Research compendium for ‘The contribution of integrated 3D model analysis to Protoaurignacian stone tool design’. **Zenodo**. doi : 10.5281/zenodo.6504415

**Faluccci, 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**. doi : 10.5281/zenodo.6368200

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

Göldner, D., Karakostis, F. A., **Faluccci, 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**. doi : 10.5281/zenodo.6365680

## Awards and Funding

### Research Grant

REINHARD-FRANK-STIFTUNG (HAMBURG, DE)

July 2022

- Awarded 7,500 EUR for a research stay at Harvard University (Boston, USA)

### Publication Grant

OPEN ACCESS PUBLICATION FUND (TÜBINGEN, DE)

May 2022

- Awarded 1,224 USD to cover the publication fees of open access journals

### Publication Grant

OPEN ACCESS PUBLICATION FUND (TÜBINGEN, DE)

April 2022

- Awarded 770 USD to cover the publication fees of open access journals

### Research Grant

DFG, GERMAN RESEARCH FOUNDATION (BONN, DE)

Sept 2020

- Awarded 316,229 EUR for the research project entitled “Investigating Early Upper Paleolithic Technological Variability and Cultural Dynamics South of the Alps” (grant agreement no. 431809858)

### Research Grant

UNIVERSITY OF TÜBINGEN (TÜBINGEN, DE)

Jan 2019

- Awarded 1,000 EUR for conducting research at the Department of Geosciences, Working Group Early Prehistory and Quaternary Ecology

### Research Grant

UNIVERSITY OF FERRARA (FERRARA, IT)

March 2019

- Awarded 3,000 EUR for analyzing the Gravettian lithic assemblage from Fumane Cave

## Travel Bursary

EUROPEAN SOCIETY FOR THE STUDY OF HUMAN EVOLUTION (ESHE)

Sept 2018

- Awarded 150 EUR to present a paper at the ESHE annual meeting in Faro, Portugal

## Travel Bursary

INTERNATIONAL UNION OF PREHISTORIC AND PROTOHISTORIC SCIENCES (UISPP)

Aug 2018

- Awarded 200 EUR to present a paper at UISPP conference in Paris, France

## Travel Bursary

UNIVERSITÄTSBUND TÜBINGEN E. V. (TÜBINGEN, DE)

Aug 2018

- Awarded 150 EUR to present my Ph.D. findings at the UISPP conference in Paris, France

## Publication Grant

OPEN ACCESS PUBLICATION FUND (TÜBINGEN, DE)

Dec 2017

- Awarded 1,150 USD to cover the publication fees of open access journals

## Travel Bursary

EUROPEAN SOCIETY FOR THE STUDY OF HUMAN EVOLUTION (ESHE)

Sept 2016

- Awarded 250 USD to present a paper at the ESHE annual meeting in Madrid, Spain

## Ph.D. Scholarship

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

Dec 2015

- Awarded 49,140 EUR to conduct a doctoral research project at the University of Tübingen

## Research Grant

FONDAZIONE ATLANTE (MILAN, ITALY)

April 2015

- Awarded 4,000 EUR for a research stay at the Hebrew University of Jerusalem, Israel

## Erasmus+ Scholarship

EUROPEAN COMMISSION

Sept 2014

- Study abroad program at the University of Toulouse, France

## Travel Bursary

INTERNATIONAL UNION OF PREHISTORIC AND PROTOHISTORIC SCIENCES (UISPP)

Aug 2014

- Awarded 350 EUR to present a paper at UISPP conference in Burgos, Spain

## Erasmus Scholarship

EUROPEAN COMMISSION

Sept 2012

- Study abroad program at the University of Granada, Spain

# Teaching Experience and Supervision

I teach prehistoric archaeology, lithic technology, and 3D-based methods in the framework of the MSc program **Archaeological Sciences and Human Evolution** [↗](#) at the **Institute for Archaeological Sciences** [↗](#) (University of Tübingen, Germany).

## 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).

## Supervision

I supervised **five** research assistants (*Wissenschaftliche Hilfskraft*) in the framework of my DFG project “Investigating Early Upper Paleolithic Technological Variability and Cultural Dynamics South of the Alps” to assist in lithic analysis, experimental activity, and 3D-scanning.

## Technical Skills

### Coding Languages

R, RStudio, RMarkdown

### Software

GitHub, IBM SPSS, Microsoft Office,  
Adobe CreativeCloud, Meshlab,  
Geomagic Wrap, Avizo

### 3D Scanners

Artec Space Spider, Artec Micro

## Additional Training and Professional Development

Ongoing **Certificate "Science Communication and Media Competence"** (Graduate Academy, Tübingen)

2022 **Data Manipulation with R Tidyverse** (TransmittingScience, Barcelona)

2022 **Graphs with R's ggplot2** (TransmittingScience, Barcelona)

2022 **R Programming Course** (TransmittingScience, Barcelona)

2022 **Getting Started with R** (Coursera Project Network)

2022 **Applying for a Marie Curie Postdoctoral Fellowship** (YellowResearch, Amsterdam)

2022 **Strategic Career Planning in Academia** (Graduate Academy, Tübingen)

2022 **Taking the Lead for Postdocs** (Graduate Academy, Tübingen)

2022 **Advanced Agile Project Management for Researchers** (Graduate Academy, Tübingen)

2021 **Introduction to Basic Principles of Grant Writing** (Graduate Academy, Tübingen)

## Professional Memberships

Since 2022 **Computer Applications and Quantitative Methods in Archaeology (CAA)**

Since 2021 **Society for American Archaeology (SAA)**

Since 2020 **Gesellschaft für Urgeschichte e.V. (GFU)**

Since 2016 **Hugo Obermaier-Gesellschaft (HOG)**

Since 2016 **European Society for the Study of Human Evolution (ESHE)**

## Academic Service

I have served as academic reviewer for several peer-reviewed journals such as **PLoS ONE** (2), **Archeological and Anthropological Sciences** (1), **Journal of Archaeological Science: Reports** (1), **Journal of Paleolithic Archaeology** (2), **IIPP Journal** (2), as well as for edited book chapters.

### Member of doctoral committee

I was an external member of the doctoral committee for the dissertation entitled "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** at the Universitat Rovira i Virgili (Tarragona, Spain) on the **20.12.2021**

## Scholarly Presentations

### 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** (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** (Chicago, USA). *Podium Presentation*.

## 2021

**Faluccci, 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*.

**Faluccci, 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

**Faluccci, 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*.

**Faluccci, 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., Boschini, F., Crezzini, J., **Faluccci, 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*.

**Faluccci, 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*.

**Faluccci, 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** (Faro, PT). *Podium Presentation*.

## 2017

Bataille, G., Bolus, M., Conard, N. J., **Faluccci, A.**, Peresani, M., Tafelmaier, Y. (2017) The techno-typological variability of the European Aurignacian from a multi-regional and diachronic perspective. 59th 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., **Faluccci, A.**, Forte, M., Gennai, J., Nannini, N., Romandini, M., Terlati, 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

**Faluccci, 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** (Madrid, ES). *Poster Presentation*.

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

## 2014

Romandini, M., **Faluccci, 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 Academic Lectures

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### 2020

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

### 2019

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

DFG Center for Advanced Studies “Words, Bones, Genes, Tools: Tracking Linguistic, Cultural and Biological Trajectories of the Human Past”, **University of Tübingen**. 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).*

### 2018

Institut für Ur- und Frühgeschichte und Archäologie des Mittelalters, **University of Tübingen**. Kolloquium Ältere Urgeschichte. *Title: A Chrono-cultural Narrative of the Fumanian Aurignacian.*

### 2016

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

### 2015

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

## Selected Fieldwork Experiences

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July 2017 **Manot Cave, Israel** (Directors: Prof. O. Mader and Dr. O. Barzilai)

Aug 2015 **Arma Veirana, Italy** (Directors: Prof. F. Negrino, Prof. J. Riel-Salvatore, et al.)

Aug 2014 **Fumane Cave, Italy** (Director: Prof. M. Peresani)

July 2014 **Les Cottés and Le Fontenieux, France** (Director: Prof. M. Soressi)

May 2014 **Covoletto de Nadale, Italy** (Director: Prof. M. Peresani)

Aug 2013 **Pastena Cave, Italy** (Director: Prof. M.F. Rolfo)

July 2011 **Catignano Castle, Italy** (Director: Dr. M. Mendera)

## Languages

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Skill	Italian	English	Spanish	French	German	Greek
Reading	Native	C2	C2	C1	B2	A1
Writing	Native	C1	C1	B2	B1	A1
Listening	Native	C1	C2	C1	B2	A1
Speaking	Native	C1	C1	B2	B1	A1

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