

# Robert Hayes

## Curriculum Vitae

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### Personal details

**Contact address:**

FAU Erlangen-Nürnberg  
Schlossgarten 5  
91054 Erlangen  
Germany

Email: [rob.hayes@fau.de](mailto:rob.hayes@fau.de)

Skype: [rghs@live.co.uk](https://www.skype.com/people/rghs@live.co.uk)

Web: [rghayes.com](http://rghayes.com)

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### Academics

#### Postdoctoral research

February 2023—present: postdoctoral researcher

GeoZentrum Nordbayern, FAU Erlangen-Nürnberg, Schlossgarten 5, 91054 Erlangen, Germany

Researching mass-flux in ancient sedimentary environments under Dr. Luca Caracciolo.

#### Graduate: Doctoral studies

August 2018—January 2023: Doctorate in Geosciences

Department of Geosciences, University of Arizona, Tucson, AZ, 85721, USA

Earned PhD in geosciences at the University of Arizona under Prof. Peter DeCelles studying fluvial sedimentology in the SW USA.

#### Selected publication (see website for full list):

Hayes, R., and DeCelles, P., 2022, Reconstructing paleosinuosity and sedimentary mass balance in the Upper Triassic Shinarump paleoriver in Utah and Arizona, U.S.A.: *Journal of Sedimentary Research*, v. 92, p. 1207–1232, doi:[10.2110/jsr.2021.122](https://doi.org/10.2110/jsr.2021.122).

#### Conferences attended:

- October 2021      Talk      GSA Connects 2021, Portland OR, USA
- April 2021        Talk      GeoDaze, University of Arizona, Tucson AZ, USA
- October 2020     Talk      GSA 2020 Connects Online
- September 2019   Poster      Geological Society of America Annual Meeting, Phoenix AZ, USA

#### Grants/scholarships awarded:

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|-----------------|--|----------|
| • August 2022   | The Galileo Circle Scholarship                                 | \$1,200  |
| • July 2021     | Dr. H. Wesley Peirce and Maxine W. Peirce Graduate Scholarship | \$10,052 |
| • December 2019 | J. Harold Courtright Scholarship, AZ Geological Society        | \$3,000  |
| • May 2019      | Dr. H. Wesley Peirce and Maxine W. Peirce Graduate Scholarship | \$4,400  |
| • April 2019    | Geological Society of America Graduate Student Research Grant  | \$2,077  |
| • February 2019 | The Galileo Circle Scholarship                                 | \$2,000  |
| • August 2018   | Bert Butler Scholarship  | \$1,053  |
| • August 2018   | Sulzer Geosciences Scholarship                                 | \$3,623  |

#### Teaching and outreach:

Taught 4 semesters of sedimentology labs for a 300-level undergraduate course and co-created a major overhaul of the materials for said labs. Additionally co-organised student outreach efforts to the general public at the Tucson Gem and Mineral Show with the undergraduate Society of Earth Science Students in 2020 and 2022.

## Undergraduate: Master's of Geology (First Class Honours)

September 2014 - July 2018: MGeol Geology with Palaeobiology with a Year Abroad (First Class Honours)

Department of Geology, University of Leicester, University Road, LE1 7RH, UK; with a year abroad at Department of Geosciences, University of Arizona, Tucson, AZ, 85721, USA

### Dissertation:

Master's research project under Prof Sarah Gabbott developing novel research methods in the field of Anthropocene geology, focusing on plastics in a geological context.

### Academic awards:

- East Midlands Geological Society Beryl Whittaker Award: awarded to the student with the highest marked Master's research dissertation
- Dick Aldridge Award: awarded to the final year student who throughout their degree has promoted interest in the field of palaeobiology, within or outside the university, and has displayed qualities of scholarship and enthusiasm

## Fieldwork experience

*During Ph.D.:* total of 8 months of solo independent fieldwork conducted between August 2018 and August 2022, covering Utah, northern Arizona, northeastern New Mexico, western Colorado and select sites in Nevada. Fieldwork techniques focused on collection of sedimentary data, including sedimentary logging, paleoflow measurement and facies analysis.

*Prior fieldwork:* 5 weeks independent fieldwork carried out in Ebro Basin of northern Catalunya, Spain; guided courses in Wales and Arran, UK, and Sicily, Italy.

### Prior education

September 2012 – July 2014: King Edward VII School, Sheffield: A levels: Geology (A), Chemistry (B), Biology (C)

September 2007 – July 2012: Harry Carlton Comprehensive School, East Leake, Leicestershire: GCSEs: 10 at A\*-B

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## Employment history

*Feb 2023—present:* Postdoctoral Researcher, GeoZentrum Nordbayern, Friedrich-Alexander Universität, Nürnberg, Germany: engaged in research focused on reconstructing sediment flux in ancient environments.

*August 2018—January 2023:* Graduate Assistant, Department of Geosciences, University of Arizona, USA: Role involves teaching lab sections of geoscience classes, including sedimentology and stratigraphy, physical geology, geomorphology and oceanography. Also entails grading of lab work.

*June 2019—August 2019:* Research Project Assistant, Department of Geosciences, University of Arizona, USA: Research assistant on the DATA 7 project (Profs Carrapa and Ducea (Geosciences) and Prof Surdeanu (Computer Sciences)) focused on producing a machine learning algorithm for producing big data in geoscience topics.

*October 2017—May 2018:* Note Taker, University of Leicester AccessAbility Centre, UK: Role entailed taking lecture notes for students with accessibility requirements in a variety of subjects.

*January 2017 – May 2017:* Lab Assistant, Department of Geosciences, University of Arizona, USA: Primary duties encompassed processing of in excess of 600 sediment samples through various methods, including Loss On Ignition and grainsize analysis and keeping accurate records of samples handled and data collected.

*January 2017 – May 2017:* Residence Hall Association (RHA) Parliamentarian, University of Arizona, USA: Main duty to maintain the flow of student government meetings using Robert's Rules of Parliamentary Procedure, using this to manage debates and settle disputes within the meetings.

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## IT skills

*Coding:* working proficiency with Python, R and Bash with basic proficiency in PowerShell, C and MATLAB.

*GIS:* working knowledge ArcGIS, qGIS and GDAL.