

Publications (State 2025):

Dating Methods

- Schellmann, G., **Schielein, P.**, Burow, Chr. & Radtke, U. (2020): Accuracy of ESR Dating of small gastropods from loess and fluvial deposits in the Bavarian Alpine Foreland. *Quaternary International*, 556, 198-215, <https://doi.org/10.1016/j.quaint.2019.07.026>
- **Schielein, P.**, Burow, Chr., Pajon, J., Consiegra, R.R., Zhao, J. & Schellmann, G. (2019): ESR and U/Th dating results for Last Interglacial coral reef terraces at the northern coast of Cuba. *Quaternary International*, 556, 216-229, <https://doi.org/10.1016/j.quaint.2019.11.041>

Fluvial and Coastal Geomorphology

- Schellmann, G., **Schielein, P.**, Rähle, W. & Burow, Ch. (2019): The formation of Middle and Upper Pleistocene terraces (*Übergangsterrassen* and *Hochterrassen*) in the Bavarian Alpine Foreland - new numeric dating results (ESR, OSL, ¹⁴C) and gastropod fauna analysis. *E&G Quaternary Science Journal*, 68, 141-164, <https://doi.org/10.5194/egqsj-68-141-2019>
- **Schielein, P.**, Schellmann, G., Lomax, J., Preusser, F. & Fiebig, M. (2015): Chronostratigraphy of the Hochterrassen in the lower Lech valley [Northern Alpine Foreland]. *E&G Quaternary Science Journal*, 64, 15-28, <https://doi.org/10.3285/eg.64.1.02>
- **Schielein, P.** & Lomax, J. (2013): The effect of fluvial environments on sediment bleaching and Holocene luminescence ages - A case study from the German Alpine Foreland. *Geochronometria*, 40 (4), 283-293, <https://doi.org/10.2478/s13386-013-0120-y>
- Schellmann, G., Gesslein, B. & **Schielein, P.** (2012): Neue Befunde zur Würmlöß-Stratigraphie in der Kiesgrube Gewanne I (Augsburger Hochterrasse). - In: GREGOR, H.-J. (Hrsg.): Die Eiszeit in Bobingen. Neue Befunde und Ergebnisse aus Kiesgruben der Fa. LAUTER (Landkreis Augsburg, Bayern), Documenta naturae, 191, 35-36, ISBN: 978-3-86544-191-1, [Documenta naturae, 191](https://doi.org/10.3285/eg.64.1.02)
- **Schielein, P.** (2012): Jungquartäre Flussgeschichte des Lechs unterhalb von Augsburg und der angrenzenden Donau. *Bamberger Geogr. Schr.*, SF 9, <https://doi.org/10.20378/irb-572>
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- **Schielein, P.** (2010): Neuzzeitliche Flusslaufverlagerungen des Lechs und der Donau im Lechmündungsgebiet - qualitative und quantitative Analysen historischer Karten. *Bamberger Geogr. Schr.*, 24, 215-241.
- **Schielein, P.**, Zschau, J., Woith, H. & Schellmann, G. (2007): Tsunamigefährdung im Mittelmeer - Eine Analyse geomorphologischer und historischer Zeugnisse. *Bamberger Geogr. Schr.*, 22, 153-199.

Geoarchaeology, Paleoenvironment Reconstruction and Soil Science

- Garbe, P.; El-Raouf, A.; Behl, M.; Es-Senussi, A.; Lange-Athinodorou, E.; **Meister, J.** (2025): Paleoenvironmental reconstruction of the settlement area of ancient Bubastis, southeastern Nile Delta (Egypt). *Geoarchaeology*, 40(5), e70029. <https://doi.org/10.1002/gea.70029>
- Rixhon, G.; **Meister, J.**; Unkel, I. (2025): Preface to the special issue "Quaternary research in times of change – inspired by INQUA Roma 2023". *E&G Quaternary Science Journal*, 74(2), 147-149. <https://egqsj.copernicus.org/articles/74/147/2025/>
- Mader, C.; Godde, P.; Hägele, E.; Lyons, M.; Weber, A.K.; Odenthal, R.; Stryjski, P.; Binder, C.; Leceta, F.; Isla, J.; Reindel, M.; **Meister, J.** (2025): Mapping and geospatial analysis of ancient terrace agricultural systems in Lucanas province, Peruvian Andes, based on satellite imagery, high-resolution DSMs, and field surveys. *Geoarchaeology*, 40(2), e70002. <https://doi.org/10.1002/gea.70002>
- Members of the Research Cluster GroundCheck (Antolín, F.; Brückner, H.; Castanyer, P.; Colombi, C.; Dinies, M.; Ducke, B.; Hausleiter, A.; Heinrich, I.; Hofmann, K.P.; Julià, R.; Kowarik, K.; Laaha, V.; Leo, M.; Mader, C.; Marzoli, D.; **Meister, J.**; Morera, N.; Notroff, J.; Ögüt, B.; Rassmann, K.; Reindel, R.; Reinhold, S.; Salvador-Baiges, G.; Schitteck, K.; Schlöffel, M.; Schlotzhauer, U.; Schneider, S.; Schultz Rasmussen, M.; von Rummel, P.; Wagner, M.; Watson, J.) (2024): Global archaeology and climate change from the experience of research within a public body and a proposal to collaborate internationally on "super-sites". *World Archaeology*, 55(3), 259-267. <https://doi.org/10.1080/00438243.2023.2432140>

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- Garbe, P., El-Raouf, A. A., Es-Senussi, A., Lange-Athinodorou, E., & **Meister, J.** (2024): Holocene landscape reconstruction in the surroundings of the Temple of Pepi I at ancient Bubastis, southeastern Nile Delta (Egypt). *Geoarchaeology*, 39, 17–34, <https://doi.org/10.1002/gea.21981>
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Quaternary Geology

- Schellmann, G., **Schielein, P.**, Burow, Ch. & Radtke, U. (2020): Accuracy of ESR Dating of small gastropods from loess and fluvial deposits in the Bavarian Alpine Foreland. *Quaternary International*, 556, 198-215, doi.org/10.1016/j.quaint.2019.07.026
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Remote Sensing

- Mader, C.; Godde, P.; Hägele, E.; Lyons, M.; Weber, A.K.; Odenthal, R.; Stryjski, P.; Binder, C.; Leceta, F.; Isla, J.; Reindel, M.; **Meister, J.** (2025): Mapping and geospatial analysis of ancient terrace agricultural systems in Lucanas province, Peruvian Andes, based on satellite imagery, high-resolution DSMs, and field surveys. *Geoarchaeology*, 40(2), e70002. <https://doi.org/10.1002/gea.70002>
- Ullmann, T.; Möller, E.; Baumhauer, B.; Lange-Athinodorou, E.; **Meister, J.** (2022): A new Google Earth Engine tool for spaceborne detection of buried palaeogeographical features – examples from the Nile Delta (Egypt). *E&G Quaternary Science Journal*, 71, 243–247, <https://doi.org/10.5194/egqsj-71-243-2022>
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