

# Melike Aydınlar



<https://melikea.github.io/>



[melike.aydinlilar@inria.fr](mailto:melike.aydinlilar@inria.fr)

## Employment History

- 2019 – 2023 **PhD Student**, Inria, Loria. Nancy, France.
- 2015 – 2018 **Research Assistant**, Department of Computer Engineering, METU. Ankara, Turkey.
- 2014 – 2014 **Software Developer**, Reo-Tek Simulation, Interactive Presentation and Exhibit Design. Ankara, Turkey.
- 2013 – 2013 **Student Lab Assistant**, Department of Computer Engineering, METU. Ankara, Turkey.

## Education

- 2019 – 2023 (expected) **Ph.D., Université de Lorraine. Nancy, France**  
Thesis title: *Implicit modeling for additive manufacturing*.
- 2015 – 2018 **M.Sc. Computer Science, Middle East Technical University (METU). Ankara, Turkey**  
Thesis title: *Part-based data-driven shape interpolation*.  
GPA: 3.5 / 4.0
- 2010 – 2015 **B.Sc. Computer Engineering, Middle East Technical University (METU). Ankara, Turkey**  
GPA: 3.3 / 4.0.

## Research Publications

### Journal Articles

- 1 M. Aydınlar and C. Zanni, “Forward inclusion functions for ray-tracing implicit surfaces,” *Computers & Graphics*, to appear, 2023.
- 2 M. Aydınlar and Y. Sahillioğlu, “Part-based data-driven 3d shape interpolation,” *Computer-Aided Design*, 2021, ISSN: 0010-4485. DOI: <https://doi.org/10.1016/j.cad.2021.103027>.
- 3 M. Aydınlar and C. Zanni, “Fast ray tracing of scale-invariant integral surfaces,” *Computer Graphics Forum*, 2021. DOI: 10.1111/cgf.14208.

### Conference Proceedings

- 1 M. Aydınlar and C. Zanni, “Transparent Rendering and Slicing of Integral Surfaces Using Per-primitive Interval Arithmetic,” in *Eurographics 2022 - Short Papers*, ISBN: 978-3-03868-169-4. DOI: 10.2312/egs.20221027.
- 2 Y. Sahillioğlu and M. Aydınlar, “Shape Interpolation via Multiple Curves,” in *Pacific Graphics Posters*, The Eurographics Association, 2018, ISBN: 978-3-03868-074-1. DOI: 10.2312/pg.20181292.

## Skills

- Programming C/C++, Python, R, GLSL.
- Tools Unity3D, Blender.
- Languages English (fluent), French (intermediate), Italian (basic), Turkish (native).

## Miscellaneous Experience

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### Awards and Achievements

- 2015–2018     **Graduate Scholarship.** Scientific and Technological Research Council of Turkey.
- 2010–2016     **METU Achievement Grant.** Scholarship for top 100 students at the entrance exam.
-  **KYK Achievement Grant.** Scholarship for top 100 students at the entrance exam.
- 2010          **Placed 33rd among ~2 million applications nationwide.** Undergraduate Placement Examination.

### Certification

- 2017          **Interdisciplinary Design Studio.** METU Design Factory.

## References

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