

Name Surname: Kartal Turhan

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Certifications: buildingSMART Professional Certified | Autodesk Certified Instructor (ACI) & Professional (ACP)

Education

PhD: Özyeğin University, Graduate School of Natural and Applied Sciences, PhD Program in Architecture, PhD Candidate (Fall 2021 – Present)

Dissertation Title: Integration of Building Information Modeling (BIM) in Interior Architecture, openBIM Standards, and Digital Process Modeling (*Advisor: Assist. Prof. Dr. Işıl Tekçe*)

Master's Degree: Hacettepe University, Graduate School of Fine Arts, Department of Interior Architecture and Environmental Design (2018)

Thesis Title: "An Investigation on the Use of Fractal Geometry in Interior Spatial Organization" (*Advisor: Assist. Prof. Dr. Duygu Koca*)

Bachelor's Degree: Hacettepe University, Faculty of Fine Arts, Department of Interior Architecture and Environmental Design (2013)

Academic Appointments

1. Instructor - Özyeğin University, Faculty of Architecture and Design, Department of Interior Architecture and Environmental Design & Department of Architecture (2021 – Present)

2. Instructor - Nişantaşı University, Faculty of Art and Design, Department of Interior Architecture (English & Turkish Programs) (2020)

Publications

Articles Published in Peer-Reviewed / Indexed Journals

1. Sancak, N., Uzun, F., Turhan, K., Saraoğlu Yumni, H. K., & Özer, D. G. (2023). Photogrammetric model optimization in digitalization of architectural heritage: Yedikule fortress. International Archives of the Photogramme-

try, Remote Sensing and Spatial Information Sciences (ISPRS Archives), Volume XLVIII-M-2-2023, pp. 1403–1410. <https://doi.org/10.5194/isprs-archives-XLVIII-M-2-2023-1403-2023>

Refereed Conference & Symposium Proceedings

a. International Conference Proceedings

1. Sancak, N., Uzun, F., Turhan, K., Saraoğlu Yumni, H. K., & Özer, D. G. (2023). Photogrammetric model optimization in digitalization of architectural heritage: Yedikule fortress. 29th CIPA Heritage Documentation International Symposium, Florence, Italy.
2. Turhan, K., & Yüksekaya, A. (2024). A Digital Interface Proposal for Black Square Problem in Basic Design Education. İÇMEK 6th International Congress On Interior Architecture Education "CODE, CORE, COLLABORATION AND CREATIVITY", İstanbul Kültür University, December 2024. ISBN: 978-625-8180-45-9.

b. National Conference Proceedings

1. Yüksekaya, A., Karabulut, H., & Turhan, K. (2024). Between 'Place' and 'Placelessness': Multi-functional Furniture Proposals for Post-Disaster Temporary Housing Containers. Hacettepe University National Symposium, October 2024. ISBN: 978-605-73941-2-5.
2. Turhan, K. (2018/2021). An Application of Accessibility in Ergonomics within Building Information Modeling (BIM) Environment. Proceedings of the 26th National Ergonomics Congress, Kırıkkale University, Kırıkkale.

Books & Book Chapters

a. International Book Chapters

1. Turhan, K., & Tekçe, I. (2026). AI-Enhanced Sustainability Assessment of an Existing Educational Building Through Integrated Simulation: A Case Study. In: Littlewood, J., Gagliano, A., Howlett, R.J., Jain, L.C. (eds) Sustainability in Energy and Buildings 2025. Smart Innovation, Systems and Technologies, Springer, Cham, pp. 390-396. https://doi.org/10.1007/978-3-032-14677-9_37
2. Camiz, A., Özkuvancı, Ö., Turhan, K., & Sezer, B. (2024). A Simultaneous Multiuser Collaborative Immersive Design Environment: Extended Reality and Digital Photogrammetry for the Valorisation of Heritage Sites. In: Giordano, A., Russo, M., Spallone, R. (eds) Advances in Representation. Digital Innovations in Architecture, Engineering and Construction. Springer, Cham, pp. 245-260. https://doi.org/10.1007/978-3-031-62963-1_17

b. National Book Chapters

- (None)

Other Publications & Academic Presentations

1. Turhan, K. (2018). "An Investigation on the Use of Fractal Geometry in Interior Spatial Organization", Master's Thesis Presentation, Graduate School of Fine Arts, Hacettepe University, Ankara.

Research Projects

1. **International Funded Project (Erasmus+):** ID4EX - Immersive Design and New Digital Competences for the Rehabilitation and Valorization of the Built Heritage (2022–2024). European Union Funded Research Project. Role: Özyeğin University Project Team Researcher (BIM Specialist).
2. **International Project Application (Erasmus+ - Pending):** Cooperation Partnerships Project: Digital Twin, Extended Reality (XR/VR), and openBIM-Focused Spatial Methodologies. Joint initiative of Warsaw University of Technology & Özyeğin University. Role: Senior Researcher (Proposal Under Review / Pending).
3. **International Project Application (COST Action - Pending):** CA25158 - TECH-TO.BE: TECHnological Transformation Of the Built Environment. Understanding Digital Innovations (2025–2029). Role: Management Committee Nomination & Working Group Application (Pending).
4. **International Project Proposal (Horizon Europe - Pending):** New European Bauhaus (NEB) 2026 Proposals: Calls (HORIZON-NEB-2026-01-PARTICIPATION-02, PARTICIPATION-03, BUSINESS-03). In collaboration with Özyeğin University TTO. Role: Proposal Contributor & Spatial Designer (Proposal Preparation / Pending).

Teaching Experience

Undergraduate Courses:

- Özyeğin University (2021 – Present):
 - INAR 422: BIM Applications in Interior Architecture (Interdisciplinary BIM studio based on Autodesk Construction Cloud CDE)
 - INAR 415: Digitalization of Interior Architecture (Parametric prototyping, G-code scripting, and non-planar 3D printing - 5.00/5.00 Student Evaluation Score)
 - MIM 455: Building Modeling Techniques (Department of Architecture)
 - INAR 317: Designing Accessible Spaces
 - INAR 412: Vertical Circulation Systems
 - INAR 401: Interior Design Studio V
 - INAR 303: Details for Interiors I
 - INAR 206: Ergonomics in Interior Architecture

INAR 201 / 202 / 301: Interior Design Studio I, II & III

INAR 105: Introduction to Interior Architecture and Environmental Design

ARCH 101: Design Studio I

- Nişantaşı University (2020):

Computer Aided Design 1, 2, 3, 4 (English & Turkish Programs)

Design Studio 2, 3

Basic Design & Basic Drawing

Barrier-free Design

Detail Analysis & Materials 2

Postgraduate Courses:

- (None)

Postgraduate Thesis Supervision:

- (None)

Professional & Industry Experience

1. Certified Professional Software Instructor: Autodesk Authorized Training Center (August 2024 – Present): Delivered certified "Revit Architecture" and "Advanced Revit Architecture" courses as an Autodesk Certified Instructor (ACI).

2. Professional Software Instructor: 3D Design & Software Training Center, Istanbul (2020): Instructor for 3D Studio Max, Revit, SketchUp, V-Ray, Lumion, and Twinmotion.

3. International 3D Asset & Visualization Specialist: International 3D Digital Asset Platform, Vilnius, Lithuania (2020): Archviz & 3D Digital Asset Specialist.

4. Interior Design & Architectural Visualization: Interior Architecture & Visualization Studio, Istanbul (2019): Interior Architect and 3D Visualization Specialist (Residential, Retail, and Corporate HQ Projects).

5. Architectural Visualization Specialist: Architectural Visualization Studio, Istanbul (2018): Architectural Visualization Specialist (3D Architectural Modeling & Photorealistic Rendering).

6. Founder & Lead Interior Architect: Private Practice, Istanbul (2016 – 2020): Founder & Lead Interior Architect for residential and commercial interior design, concept development, and execution.

7. Architectural Visualization Specialist: Architectural Visualization Studio, Istanbul (2016): Architectural Visualization Specialist (Branded Housing & Villa Projects).

8. Interior Architectural Design & Execution: Interior Design & Execution Firm, Istanbul (2015): Interior Architect (Retail Store Concept Design & Execution).

9. Interior Architectural Design: Interior Architecture Firm, Ankara (2013): Interior Architect (Residential Interior Design & Implementation).

Tasks in Event Organizations

1. Hacettepe University Post-Disaster Temporary Housing Workshop (April 4, 2023): "Between 'Place' and 'Placelessness': Multi-functional Furniture Proposals for Post-Disaster Temporary Housing Containers", National Online Workshop Organizer & Instructor.

2. İstanbul Kültür University Spring Workshops (2021): "Re-functioning Home Life with Zero-Waste Materials", Invited Workshop Leader.

3. 5th National Interior Architecture Students Meeting (Hacettepe University): Organizing Committee Member.

Jury Memberships & Student Mentorships

1. National Student Competition Mentorship: MEKAN 2024 Interior Architecture Graduation Projects Competition - Project Mentor (Honorable Mention).

2. National Student Competition Mentorship: im2021 Interior Architecture Students Project Competition - Project Mentor (Equivalent Honorable Mention).

3. Graduation Project Jury Member: ARCH 402 D Graduation Project - Özyeğin University (Spring 2022–2023).

4. Design Studio Jury Member: ARCH 102 Architectural Design Studio 1 - Özyeğin University (Fall 2023–2024).

5. Design Studio Jury Member: ARCH 201 Architectural Design Studio 2 - Özyeğin University (Fall 2023–2024).

6. Studio Juries: INAR Design Studio and Term Project Juries (INAR 201 / 202 / 301 / 401 / 422 / 415) - Özyeğin University and Nişantaşı University (2020 – Present).

Scientific Refereeing / Peer Reviewing

a. Peer Reviewing for Scientific Journals

1. The International Journal of Architectonic, Spatial, and Environmental Design (Common Ground Research Networks) - Peer Reviewer (2026).

2. The International Journal of Design Education (Common Ground Research Networks) - Peer Reviewer (2026).

b. Scientific Committees & Peer Reviewing for Conferences

- (None)

Professional & Scientific Memberships

1. TMMOB Chamber of Interior Architects (İçmimarlar Odası): Registered Member (2013 – Present)

2. Autodesk Certified Instructor (ACI) Network: Authorized Training Instructor Community Member (2024 – Present)

Other Experience & Institutional Roles

a. Workshop Moderation

1. Erasmus+ ID4EX Project International Seminar and Workshop Series - Workshop Moderator (2022–2024).

b. Conference Presentations & Seminars

1. Turhan, K. (2023). "Case Study: A Collaborative Working Procedure in Design via VR", Warsaw University of Technology / ID4EX International Seminar.

2. Turhan, K. (2023). "Mini Pilot Action – Özyeğin University", Erasmus+ ID4EX Symposium.

3. Turhan, K. (2023). "From Lidar to BIM on the Cloud", Özyeğin University / ID4EX Seminar.

4. Turhan, K. (2023). "Immersive Technologies for Design in Heritage Contexts - Procedures: Software and Hardware Tools", ID4EX Workshop Series.

5. Turhan, K. (2018). "An Investigation on the Use of Fractal Geometry in Interior Spatial Organization", Hacettepe University Graduate Seminar Series, Ankara.

c. Media & Panel Speaking

1. Panel speaker and webinar presenter on BIM Integration, openBIM Standards, Digital Fabrication, and Generative Design.

d. Administrative Roles

1. Özyeğin University, Department of Interior Architecture and Environmental Design, Member of Quality and Accreditation Committee (2021 – Present).

2. Özyeğin University, Department of Interior Architecture and Environmental Design, Member of Internship Committee & Office Internship Coordinator (2021 – Present).

e. Professional & Academic Certifications

1. buildingSMART Professional Certification - buildingSMART International (2024) [ISO 19650 openBIM]
2. Autodesk Certified Professional (ACP): Revit for Architectural Design - Autodesk (Valid through February 2027)
3. Autodesk Certified Instructor (ACI): Authorized Training Instructor - Autodesk (August 2024 – Present)
4. Using Generative AI in Manuscript Preparation - Elsevier Researcher Academy (July 2026)
5. Google Gemini Certified Educator - Google (2025)
6. Advanced AI & ML Specialization - Council of Higher Education (YÖK) / AWS (2024)
7. Applied Building Information Modeling (BIM) Professional Certificate - Boğaziçi University BÜYEM (2022)
8. BIM Processes Training Program - Autodesk & Istanbul Technical University (İTÜ) (2021)
9. Scale Development and Structural Equation Modeling (SEM) Certification - E-İstatistik (2023)
10. Meta-Analysis Certification - SOBIAD (2024)
11. Academic Article Writing Training - Yıldız Technical University (YTÜ) (2020)