

## **Prof. OWAIN FRANCIS PEDGLEY**

### **Personal Information**

**Email:** pedgley@metu.edu.tr

**Web:** <https://avesis.metu.edu.tr/pedgley>

### **International Researcher IDs**

ScholarID: otkAHc4AAAAJ

ORCID: 0000-0003-3557-7996

Publons / Web Of Science ResearcherID: AAZ-8181-2020

ScopusID: 17342499600

Yoksis Researcher ID: 205088

### **Research Areas**

Industrial Design

### **Academic Titles / Tasks**

Professor, Middle East Technical University, Faculty of Architecture, Department of Industrial Design, 2018 - Continues

### **Academic and Administrative Experience**

Faculty Promotions and Appointments Committee - Member, Middle East Technical University, Faculty of Architecture, Department of Industrial Design, 2020 - Continues

Graduate Programs Committee - Chair, Middle East Technical University, Faculty of Architecture, Department of Industrial Design, 2020 - Continues

Graduate Applications Committee - Member, Middle East Technical University, Faculty of Architecture, Department of Industrial Design, 2019 - Continues

### **Courses**

GRADUATE SEMINARS IN INDUSTRIAL DESIGN, Postgraduate, 2020 - 2021

CURRENT ISSUES IN INDUSTRIAL DESIGN, Postgraduate, 2020 - 2021

DOCTORAL SEMINARS IN INDUSTRIAL DESIGN, Postgraduate, 2020 - 2021

### **Advising Theses**

PEDGLEY O. F., But in practice: Discovering the hybrid making approach, Postgraduate, M.PLUMMER(Student), 2022

PEDGLEY O. F., 3d surface texture and its effect on brand identity: A study in the military context, Postgraduate, E.ÇANKAYA(Student), 2022

PEDGLEY O. F., Enhancing the experience of esports spectating: a design study on competitive gaming and spectator interfaces, Postgraduate, O.AKSUN(Student), 2022

PEDGLEY O. F., Brand experience manifestation: A tool for concept evaluation according to brand attributes and

touchpoints, Postgraduate, I.BASHEIR(Student), 2022

Pedgley O. F., Implicit Interactions with a Peculiar Radio: Designing an Interactive Artefact for Fostering Meaningful Music-Listening Experiences, Postgraduate, Ö.SARPER(Student), 2021

PEDGLEY O. F., ENTIRE HISTORY OF YOU: RESEARCH AND DESIGN TO MANAGE DIGITAL HOARDING, Postgraduate, Ç.BAŞKAN(Student), 2021

PEDGLEY O. F., Play it back! a design study regarding changes in pre-recorded music playing experiences, Postgraduate, S.YÜKSEL(Student), 2021

Şener Pedgley B., Pedgley O. F., DESIGNING FOR NEW GENERATION ELECTRONIC MUSICAL INSTRUMENTS: STRATEGIES TO IMPROVE INTERACTION, USER EXPERIENCE AND LIVE PERFORMANCE, Doctorate, E.HÜRSU(Student), 2020

Pedgley O. F., Design for luxury automotive HMI systems and driver experiences, Doctorate, S.Yardıı(Student), 2019

Pedgley O. F., Design for performability in nylon strung acoustic guitars, Doctorate, A.KORKMAZ(Student), 2017

PEDGLEY O. F., Designing for sound as a component of product experience: Development of a novel conceptual tool, Postgraduate, K.BENLİ(Student), 2015

PEDGLEY O. F., Semantic discontinuities: Investigating designers' product expressions versus users' product impressions, Doctorate, J.KHALAJ(Student), 2015

PEDGLEY O. F., Research and design for a material sample information system appropriate to industrial design students, Postgraduate, İ.FAZIL(Student), 2013

PEDGLEY O. F., Industrial design and the mass customization of electronic consumer goods, Doctorate, S.KAYÇIN(Student), 2013

Pedgley O. F., Özcan Vieira E., A lexicon for product experiences, Postgraduate, G.Onuşluel(Student), 2012

PEDGLEY O. F., Pedgley O., Emotional effects of car passenger activities on physiology and comfort : an empirical study, Postgraduate, A.Kruithof(Student), 2012

PEDGLEY O. F., Barriers and opportunities for integrating sustainable product design into Ankara small and medium-sized furniture enterprises, Postgraduate, M.Erçin(Student), 2012

Pedgley O. F., Sonneveld M., Physical pain in user-product interaction, Postgraduate, E.DİKDUR(Student), 2011

PEDGLEY O. F., Harnessing children's creativity in contextmapping activities, Postgraduate, A.DENİZ(Student), 2010

PEDGLEY O. F., The influence of sound properties on the semantic associations of product sounds, Postgraduate, J.CLAİRE(Student), 2010

PEDGLEY O. F., Research and product design to minimize food waste in western domestic kitchens, Postgraduate, A.BEKTEŞ(Student), 2010

PEDGLEY O. F., A comparative analysis of designers' intended messages and users' perceived messages embodied in product appearance, Postgraduate, J.KHALAJ(Student), 2009

PEDGLEY O. F., Communication of smart materials: bridging the gap between material innovation and product design, Postgraduate, T.Akn(Student), 2009

## **Jury Memberships**

Doctorate, Doctorate, Middle East Technical University, September, 2022

Award, iF Design Talent Award, iF International Forum Design, April, 2022

Doctorate, Doctorate, Politecnico di Milano, February, 2022

Doctorate, Doctorate, Politecnico di Milano, February, 2022

Competition, iF Design Talent Awards 2021-02, iF, September, 2021

Competition, iF Design Talent Awards 2021-02, iF, September, 2021

Doctorate, Doctorate, SS. Cyril & Methodius University, May, 2021

Doctorate, Doctorate, Middle East Technical University, March, 2021

Doctorate, Doctorate, Middle East Technical University, February, 2021

## Designed Programs

Şener Pedgley B., Börekçi N. A. G. Z., Pedgley O. F., Ünlü C. E., Hekkert P., Diehl J., Kuijer L., Undergraduate Double Major, Birbirine Bağlı Çoklu Diploma, ODTÜ-TU Delft Etkileşim için Tasarım Uluslararası Ortak Yüksek Lisans Programı [International METU-TU Delft Joint Master of Science Programme for Design Research for Interaction], 2008 - 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Targeting a Luxury Driver Experience: Design Considerations for Automotive HMI and Interiors**  
Yardımcı S., PEDGLEY O. F.  
International Journal of Design, vol.17, no.2, pp.45-66, 2023 (SCI-Expanded)
- II. **Design for performability: a proposal for democratic redesign of the classical guitar**  
Korkmaz A., PEDGLEY O. F.  
Journal of New Music Research, vol.52, no.2-3, pp.161-185, 2023 (SCI-Expanded)
- III. **A semantic discontinuity detection (SDD) method for comparing designers' product expressions with users' product impressions**  
Khalaj J., Pedgley O.  
DESIGN STUDIES, vol.62, pp.36-67, 2019 (SCI-Expanded)
- IV. **Embracing Material Surface Imperfections in Product Design**  
PEDGLEY O. F., ŞENER PEDGLEY B., Lilley D., Bridgens B.  
INTERNATIONAL JOURNAL OF DESIGN, vol.12, no.3, pp.21-33, 2018 (SCI-Expanded)
- V. **Materials experience as a foundation for materials and design education**  
PEDGLEY O. F., Rognoli V., Karana E.  
INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, vol.26, no.4, pp.613-630, 2016 (SCI-Expanded)
- VI. **Sample libraries to expedite materials experience for design: A survey of global provision**  
Akin F., Pedgley O.  
MATERIALS & DESIGN, vol.90, pp.1207-1217, 2016 (SCI-Expanded)
- VII. **Emerging material experiences**  
Karana E., PEDGLEY O. F., Rognoli V., Korsunsky A.  
MATERIALS & DESIGN, vol.90, pp.1248-1250, 2016 (SCI-Expanded)
- VIII. **On Materials Experience**  
Karana E., PEDGLEY O. F., Rognoli V.  
DESIGN ISSUES, vol.31, no.3, pp.16-27, 2015 (AHCI)
- IX. **Comparison of Semantic Intent and Realization in Product Design: A Study on High-End Furniture Impressions**  
Khalaj J., PEDGLEY O. F.  
INTERNATIONAL JOURNAL OF DESIGN, vol.8, no.3, pp.79-96, 2014 (SCI-Expanded)
- X. **Rob armstrong – over 40 years of outstanding guitar making in England's heartland**  
PEDGLEY O. F., Norman E.  
Craft Research, vol.5, no.1, pp.111-120, 2014 (SCI-Expanded)
- XI. **Materials Innovation in Acoustic Guitars: Challenging the Tonal Superiority of Wood**  
PEDGLEY O. F., Norman E.  
LEONARDO MUSIC JOURNAL, vol.22, pp.17-24, 2012 (AHCI)
- XII. **INVIGORATING INDUSTRIAL DESIGN MATERIALS AND MANUFACTURING EDUCATION**  
PEDGLEY O. F.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.27, no.2, pp.339-360, 2010 (AHCI)
- XIII. **SPECIAL FILE: FUTURES FOR MATERIALS AND INDUSTRIAL DESIGN EDUCATION**  
Pedgley O.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.27, no.2, pp.265-269, 2010 (AHCI)
- XIV. **Influence of Stakeholders on Industrial Design Materials and Manufacturing Selection**

- PEDGLEY O. F.  
INTERNATIONAL JOURNAL OF DESIGN, vol.3, no.1, pp.1-15, 2009 (SCI-Expanded)
- XV. **MATERIALS-INSPIRED INNOVATION FOR ACOUSTIC GUITAR DESIGN**  
PEDGLEY O. F., Norman E., Armstrong R.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.26, no.1, pp.157-175, 2009 (AHCI)
- XVI. **Capturing and analysing own design activity**  
PEDGLEY O. F.  
DESIGN STUDIES, vol.28, no.5, pp.463-483, 2007 (SCI-Expanded)
- XVII. **Integration of design projects within a Ph.D.**  
PEDGLEY O. F., Wormald P.  
DESIGN ISSUES, vol.23, no.3, pp.70-85, 2007 (AHCI)
- XVIII. **DDR4 (Designing Design Research 4) - Event review and reflections**  
PEDGLEY O. F.  
DESIGN ISSUES, vol.21, no.3, pp.82-85, 2005 (AHCI)

## Articles Published in Other Journals

- I. **Ürün ve UX/UI Tasarımında Öğrenci Yetkinliğinin Geliştirilmesi**  
Şener Pedgley B., Pedgley O. F.  
YEDİ: SANAT, TASARIM VE BİLİM DERGİSİ, vol.30, no.30, pp.95-104, 2023 (Peer-Reviewed Journal)
- II. **A Collaborative Mass Customization Design Project on Electronic Consumer Goods**  
Sel S. K., PEDGLEY O. F.  
International Journal of Industrial Engineering and Management, vol.3, no.4, pp.215-221, 2012 (Scopus)
- III. **Design decision-making and materials: research agendas and gathering evidence**  
Norman E., Pedgley O. F., Coles R.  
Journal of Design and Technology Education, vol.9, no.2, pp.107-115, 2004 (Peer-Reviewed Journal)
- IV. **Topple dangers posed by free-standing soccer goalposts**  
Pedgley O. F., Haake S.  
Sports Engineering, vol.5, no.1, pp.53-63, 2002 (ESCI)

## Books & Book Chapters

- I. **The material: An active and dynamic medium in design education**  
Zhou Z., Rognoli V., Pedgley O. F.  
in: Design Culture Matters: Embracing Cultures and Cross-Cultures through Design Perspective and Matters, BOSONI G,CECCHI M, Editor, FrancoAngeli, Milan, pp.55-68, 2023
- II. **Materials Experience 2: Expanding Territories of Materials and Design**  
Pedgley O. F. (Editor), Rognoli V. (Editor), Karana E. (Editor)  
Elsevier Science, Oxford/Amsterdam , Oxford, 2021
- III. **Expanding territories of materials and design**  
Pedgley O. F., Rognoli V., Karana E.  
in: Materials Experience 2: Expanding Territories of Materials and Design, Owain Pedgley,Valentina Rognoli,Elvin Karana, Editor, Elsevier Science, Oxford/Amsterdam , Oxford, pp.1-12, 2021
- IV. **Surface texture as a designed material product attribute**  
Şener Pedgley B., Pedgley O. F.  
in: Material Experience 2: Expanding Territories of Materials and Design, Owain Pedgley,Elvin Karana,Valentina Ragnoli, Editor, Elsevier Science, Oxford/Amsterdam , Oxford, pp.67-89, 2021
- V. **Expert Interview: What Are The Changes Required In The Industrial World To Adapt To Circular Materials Innovation?**

Pedgley O. F.

in: *Material Designers: Boosting Talent Towards Circular Economies*, Cleries L, Rognoli V, Solanki S, Llorach P, Editor, Elisava / Politecnico di Milano / Matter, Barcelona, pp.62, 2021

**VI. Relentless Materiality**

Pedgley O. F.

in: *The Material Side of Design: The Future Material Design Cultures*, De Giorgi C, Lerma B, Dal Palu D, Editor, Umberto Allemandi, Turin, pp.10-15, 2020

**VII. Resistant Materials in Technology Education**

ŞENER PEDGLEY B., Pedgley O.

in: *Handbook of Technology Education*, de Vries, Marc J., Editor, Springer, pp.319-336, 2017

**VIII. Materials Experience: Fundamentals of Materials and Design**

Karana E. (Editor), Pedgley O. F. (Editor), Rognoli V. (Editor)

Elsevier Science, Oxford/Amsterdam, Oxford, 2014

**IX. Materials Selection for Product Experience: New Thinking, New Tools**

Pedgley O. F.

in: *Materials Experience: Fundamentals of Materials and Design*, Karana E, Pedgley O, Rognoli V, Editor, Elsevier Science, Oxford/Amsterdam, Oxford, pp.337-349, 2014

**X. Introduction to Materials Experience**

Karana E., Pedgley O. F., Rognoli V.

in: *Materials Experience: Fundamentals of Materials and Design*, Karana E, Pedgley O, Rognoli V, Editor, Elsevier Science, Oxford/Amsterdam, Oxford, pp.25-33, 2014

## **Refereed Congress / Symposium Publications in Proceedings**

**I. Designing With Self-Determination Theory: Home-Based Digital Exercise Interventions Creating Positive Change**

Şener Pedgley B., Pedgley O. F.

ICED23 - 24th International Conference on Engineering Design, Bordeaux, France, 24 - 28 July 2023, vol.3, pp.1417-1424

**II. Designing with Self-Determination Theory: Home-Based Digital Exercise Interventions Creating Positive Change**

Şener Pedgley B., Pedgley O. F.

ICED23, Bordeaux, France, 24 - 28 July 2023, pp.179-180

**III. The Redesign Studio: An Intensive Evidence-Based Approach for Ideating Product and UX/UI Improvements**

Pedgley O., Şener Pedgley B.

EPDE: Int. Conf. on Engineering and Product Design Education, London, England, 8 - 09 September 2022

**IV. WEARABLE TACTUAL COMMUNICATORS: DESIGNING PRODUCTS WITH TECHNOLOGY-MEDIATED TOUCH**

Şener Pedgley B., Pedgley O.

23rd International Conference on Engineering and Product Design Education (EPDE 2021), Helsingor, Denmark, 9 - 10 September 2021

**V. Ürün-Kullanıcı Deneyiminde Dokunma Hissinin Haptik Teknolojilerle Zenginleştirilmesi**

Şener Pedgley B., Pedgley O.

4. UTAK 2020 Ulusal Tasarım Araştırmaları Konferansı, Ankara, Turkey, 8 - 10 September 2020, pp.167-178

**VI. To Simulate or Not to Simulate? Challenges in Digitally Prototyping HMI Interactive Technologies**

Yardim Sener S., Pedgley O. F.

1st International Conference on Progress in Digital and Physical Manufacturing, ProDPM 2019, Leiria, Portugal, 2 - 04 October 2019, pp.82-88

**VII. Barriers and opportunities for integrating sustainable product design into Ankara small and**

**medium-sized furniture enterprises**

Okursoy M. E., Pedgley O. F.

29th International Conference Research for Furniture Industry, Ankara, Turkey, 19 - 20 September 2019, pp.1-15

- VIII. **Rapid development of materials experience through active learning**  
Pedgley O. F.  
DRS LearnXdesign 2019 5th International Conference for Design Education Researchers, Ankara, Turkey, 9 - 12 July 2019, pp.521-530
- IX. **Accelerating students' capability in design for interaction**  
Şener Pedgley B., Pedgley O. F.  
DRS LearnXdesign 2019 5th International Conference for Design Education Researchers, Ankara, Turkey, 9 - 12 July 2019
- X. **Yaşlılar için Evde E-Sağlık Çözümleri**  
Şener Pedgley B., Pedgley O., Hasdoğan G. F.  
UTAK 2018 Ulusal Tasarım Araştırmaları Konferansı: Tasarım ve Umut, Ankara, Turkey, 12 - 14 September 2018, pp.201-2017
- XI. **Simulated CMF as a credible representation method for experimental design studies**  
Ulusoy B., Olgunturk N., PEDGLEY O. F.  
14th Conferenza del Colore, Florence, Italy, 11 - 12 September 2018
- XII. **Product experience and luxury values**  
YARDIM ŞENER S., Şen G., Pedgley O., ŞENER PEDGLEY B., Murray G.  
10th International Conference on Design and Emotion, D and E 2016, Amsterdam, Netherlands, 27 - 30 September 2016, pp.107-113
- XIII. **Designing for multisensorial interactive product experiences**  
ŞENER PEDGLEY B., Pedgley O. F.  
17th International Conference on Engineering and Product Design Education, E and PDE 2015, Loughborough, United Kingdom, 3 - 04 September 2015, pp.406-411
- XIV. **Nine ways to wake up: Bedside alarm clocks designed by a 'meaningful interaction' learning approach**  
Şener B., Pedgley O. F.  
9th International Conference on Design and Emotion 2014, Bogota, Cali and Medellin, Colombia, 6 - 10 October 2014, pp.698-705
- XV. **So, what comes next? constructive randomness within products**  
Şener B., Pedgley O. F.  
8th International Conference on Design and Emotion: Out of Control, London, United Kingdom, 11 - 14 September 2012
- XVI. **Product names as a medium of communication from designers to target users**  
Khalaj J., Pedgley O. F.  
8th International Conference on Design and Emotion: Out of Control, London, United Kingdom, 11 - 14 September 2012
- XVII. **Natural fibre composites in product design: An investigation into material perception and acceptance**  
Rognoli V., Karana E., Pedgley O. F.  
2011 Conference on Designing Pleasurable Products and Interfaces, DPPI 2011, Milan, Italy, 22 - 25 June 2011
- XVIII. **Developments in user-centred materials selection for industrial design**  
Pedgley O. F.  
13th International Conference on Engineering and Product Design Education, E and PDE 2011, London, United Kingdom, 8 - 09 September 2011, pp.654-659
- XIX. **A synopsis of materials and manufacturing expertise for trainee industrial designers**  
Pedgley O. F., Norman E.  
10th International Conference on Engineering and Product Design Education, E and PDE 2008, Newcastle, United Kingdom, 13 - 14 September 2007, pp.167-172

## XX. Design decision-making and materials - Investigations in the context of recycled polymers

Norman E., Pedgley O. F., Coles R.

Design and Manufacture for Sustainable Development 2004, Loughborough, United Kingdom, 1 - 02 September 2004, pp.209-219

## Supported Projects

PEDGLEY O. F., Project Supported by Higher Education Institutions, Endüstriyel Tasarım Malzeme Deneyim Laboratuvarı Altyapı Projesi., 2012 - 2013

## Activities in Scientific Journals

She Ji, Committee Member, 2023 - Continues

Design Studies, Committee Member, 2020 - Continues

YEDİ: SANAT, TASARIM VE BİLİM DERGİSİ, Advisory Committee Member, 2020 - Continues

## Scientific Refereeing

INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, Journal Indexed in SSCI, October 2022

TEI2023: International Conference on Tangible, Embedded and Embodied Interaction, Conference Paper (Full Text), September 2022

INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, Journal Indexed in SSCI, August 2022

MATERIALS AND DESIGN, Journal Indexed in SCI-E, July 2022

DRS2022: Design Research Society International Conference 2022, Conference Paper (Full Text), January 2022

MATERIALS AND DESIGN, Journal Indexed in SCI-E, January 2022

DESIGN JOURNAL, Journal Indexed in AHCI, January 2021

Journal of Design Research, Other Indexed Journal, January 2021

INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, Journal Indexed in SCI-E, January 2021

She Ji: The Journal of Design, Economics and innovation, Other Indexed Journal, January 2020

INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, Journal Indexed in SCI-E, January 2020

INTERNATIONAL JOURNAL OF DESIGN, Journal Indexed in SSCI, January 2020

DESIGN STUDIES, Journal Indexed in SCI-E, January 2020

Design For Health, Other Indexed Journal, January 2020

DESIGN JOURNAL, Journal Indexed in AHCI, January 2020

MATERIALS & DESIGN, SCI Journal, January 2020

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, January 2020

Disena, Other Indexed Journal, January 2020

MATERIALS & DESIGN, SCI Journal, January 2019

## Scientific Consultations

British Council, Scientific Consultancy, Middle East Technical University, Faculty of Architecture, Department of Industrial Design, Turkey, 2021 - 2021

## Metrics

Publication: 62

Citation (WoS): 211

Citation (Scopus): 309

H-Index (WoS): 8

H-Index (Scopus): 10

## **Congress and Symposium Activities**

Materials Design for Transitions, Invited Speaker, Milan, Italy, 2023

## **Invited Talks**

Overview of the European Doctorate in Design (D.Doc), Seminar, Loughborough University, England, August 2023

Interfaces and Interactions for Seniors, Seminar, Middle East Technical University, Turkey, May 2023