Research interests

Overall — Designing computational tools to support human activities

Fields — HCI, Design, Affect & Cognition

PhD Study — development of a new design method, that gives order and sequence of events on the nature

Education

2009 – 2017 Ph.D., Human-Computer Interaction

Iowa State University, Ames, IA, USA

Dissertation: Emotion Centered Design: Affect, Think and Act

GPA: 3.85/4.00

08-09/2011 Graduate Certificate, Affective Science & Computing

Swiss Center for Affective Sciences, University of Geneva, Switzerland

Course of Study: Verbal and Nonverbal Expression of Emotions

- Completed the course with 3 credits.

2000-2005 B.Sc., Computer Engineering

Erciyes University, Kayseri, Republic of Turkey

- Completed a curriculum with X courses and X credits, of which %X are computer science courses, X% computer engineering courses, X% electronic couses, and X% ... courses.

Awards & Honors

2009 – 2016 Multiple Professional Development Grants — lowa State Departments

Offered by Graduate and Professional Student Senate, HCI & ECpE Department

2013 Conference Registration Pass — The Conference Organizing Committee attended Grace Hopper Celebration of Women in Computing Conference

2012 Full Conference Attendance Grant — Northrop Grumman, USA attended Grace Hopper Celebration of Women in Computing Conference

2011 Travel & Summer School Registration Grants — 2 different institutions offered by Iowa State University & Turkish National Ministry of Education attended Int. Summer School in Affective Sciences.

2011 Full Conference Attendance Grant — Microsoft USA, & Google USA

attended CRA-W Grad Cohort for Women Meeting (Women in Graduate Programs in Computing Fields)

2011	Social Innovation Leaders training award — Dell Inc. Company, USA
2009 – 2014	PhD scholarship in Wearable Computers, Turkish National Ministry of Education
	Professional Experience
2017 – ~	Compulsory "Public Service on HCI" at National Public Universities Republic of Turkey
	Completing the public service in exchange of all required costs of four years of graduate study abroad (PhD Study on HCI at USA).
2009 – 2017	PhD Researcher, Virtual Reality Applications Center (VRAC) Iowa State University, Ames, IA, USA
	Studied interaction designs between human and computers (HCI), developed a new design method, called "emotion centered design", decoding the order and sequences of action responses between objects and/or peoples.
	Developed a new method recognizing human affects (emotion, personality etc.) from bodily interactions with devices.
2006 – 2009	Graduate Researcher, Gazi University Ankara, Republic of Turkey
	Studied artificial intelligence (AI), machine learning (ML) and computer security.
2007 – 2009	Prospective Student Advisor, Gazi University Ankara, Republic of Turkey
2005 – 2009	Undergraduate Academic Advisor, Gazi University Ankara, Republic of Turkey
2005 – 2009	Lab Instructor, & Guest Lecturer, Gazi University Ankara, Republic of Turkey
2005 – 2009	Editorial Assistant — Journal of Engineering and Architecture Gazi University, Ankara, Republic of Turkey
2005 – 2009	Teaching Assistant, Gazi University Ankara, Republic of Turkey
	Teaching Experience
	as a Lecturer
SPRING 2019	Digital Logic Design, Erzurum Technical University Erzurum, Republic of Turkey
	An undergraduate class, with topics covering design of digital logic circuits for arithmetic operations, storage elements (latch, register, counters etc.) and more.
	as a Guest Lecturer
FALL 2007	Object Oriented Programming, Gazi University

	Ankara, Republic of Turkey
	a topic as part of Software Engineering, an undergraduate class.
	as a Teaching Assistant
FALL 06-08	Software Engineering, Gazi University Ankara, Republic of Turkey
	an undergraduate class.
SPRING 07–08	Computer Programming I, Gazi University Ankara, Republic of Turkey
	The class covers the topic of "C Language & Functional Programming", an undergraduate class.
FALL 2007	Computer Programming II, Gazi University Ankara, Republic of Turkey
	The class covers the topic of "C# and Object Oriented Programming".
FALL 2008	Computer and Information Security, Gazi University Ankara, Republic of Turkey
	a graduate class.
SPRING 06-09	Discrete Mathematics, Gazi University Ankara, Republic of Turkey
	an undergraduate class.
	as a Laboratory Instructor
SPRING 07–08	Computer Programming I Lab, Gazi University Ankara, Republic of Turkey
	The lab class is to help students develop their practical skills on "C and Functional Programming" an undergraduate lab.
FALL 2007	Computer Programming II Lab, Gazi University Ankara, Republic of Turkey
	The lab class is to help students develop their practical skills on "C# and Object Oriented Programming", an undergraduate lab.
SPRING 07 – 09	Physics Lab, Gazi University Ankara, Republic of Turkey
	an undergraduate lab.
	Publications
	Dissertation
2017	Emotion Centered Design: Affect, Think and Act Iowa State University, Ames, IA
	Conference papers
	In Human–Computer Interaction, top-tier conferences (< 30% acceptance rate (AR)) are as—or

		more—impactful than journals; see $\underline{\text{http://dx.doi.org/10.1145/1743546.1743569}}$.
C05	2014	Detection of predictability ratings of live events on TV by use of second screens Kiraz Candan Herdem ACM TVx 2014: 2014 ACM international conference on Interactive experiences for TV and online video, Newcastle UK, (39-46), 25% AR
C04	2012	Reactions: Twitter Based Mobile Application for Awareness of Friends' Emotions Kiraz Candan Herdem UbiComp 2012: ACM Conference on Ubiquitous Computing, Softec 2012 Workshop, 5-8
		September 2012, Pittsburgh, PA
C03	2012	Sensing Emotional State of Mobile Users for Improving Mobile Social Interaction Kiraz Candan Herdem Pervasive 2012: ACM Conference on Pervasive Computing, Doctoral Consortium, 18-22 June 2012, Newcastle, UK
C02	2012	Sensing Emotional State of Mobile Users for Improving Mobile Social Interaction Kiraz Candan Herdem ISWC 2012: IEEE Symposium on Wearable Computers, Doctoral Consortium, 18-22 June 2012, Newcastle, UK
C01	2012	Designing for Cultural Connections Peters, A., Mennecke, B., Camou, J., <i>Herdem, K. C., Zhang, L.</i> HCI International 2011, 9-14 July 2011, Orlando, Florida
		Posters
P08	2014	Emotion Recognition Kiraz Candan Herdem Graduate and Professional Student Conference 2014, 4 April 2014, Ames, IA
P07	2012	Sensing Emotional State of Mobile Users Kiraz Candan Herdem ISWC 2012, 18-22 June 2012, Newcastle UK.
P06	2012	Sensing the Emotional state of Mobile Users for improving Mobile Social Interaction Kiraz Candan Herdem ETC 2012, 19 April 2012, Ames, IA
P05	2012	Recognizing Emotional State of Mobile Device Users Kiraz Candan Herdem Department of ECpE Annual Graduate Poster Sessions, 12 April 2012, Ames, IA
P04	2011	Affective Human-Computer Interaction using Wearables in Mobile Context Kiraz Candan Herdem International Summer School in Affective Science 2011, 22-30 August 2011, Bossey, Switzerland
P03	2011	Designing for Cultural Connections Peters, A., Mennecke, B., Camou, J., <i>Herdem, K. C., Zhang, L.</i> HCI International 2011, 9-14 July 2011, Orlando, Florida

P02	2010	Developing Techniques for Wearable Memory Rehearsal Devices: A New Method to Aid Memory Recalling Kiraz Candan Herdem ASME 2010 World Conference on Innovative Virtual Reality (WINVR2010) 12-14 May 2010, Ames, IA
P01	2010	New Method for Robots: Learning to press Doorbell Buttons Kiraz Candan Herdem HCI 575 Computer Perception Class Showcase, April 2010, Ames, IA
		Technical Reports & Proposals
TrP03	2013	Emotion Detection and Affective Interface Design Kiraz Candan Herdem Preliminary Exam Proposal, October 2013, Ames, IA
TrP02	2010	Long Term Object Possession Kiraz Candan Herdem Psych 516 Advanced Cognition Class Research Proposal, Nov 2010, Ames, IA
TrP01	2009	Technology Solutions for People Suffering from Memory Problems: Alzheimer, Dementia, and Other Diseases Kiraz Candan Herdem HCI 655 Class Project, December 2009, Ames, IA
		Manuscripts
		Patent Drafts
2009	-2017	An Apparatus and Method for Recognition of Values from User Activity Kiraz Candan Herdem Patent Office: USPTO
2009-2017		An Apparatus and Method for Emotion Centered Design Kiraz Candan Herdem Patent Office: USPTO
		Journal Papers
2019	_	HCI people design for user experiences. Kiraz Candan Herdem Journal: Human – Computer Interaction, Taylor Francis
		An analysis study on what HCI people do in design projects.
2019	-	HCI people are designers, but they are scientists, as well! Kiraz Candan Herdem Journal: ACM ToCHI – ACM Transactions on Transactions on Computer-Human Interaction
		An analysis study answering the question of "who are hci people/professionals".
2019	-	Designers' positions & functions in the new contextual settings of design projects Kiraz Candan Herdem

Journal: MIT Design Issues

An analysis study answering the question of "who are designers" when considered that HCI people do the design tasks.

Professional Membership

09/2014 - Interaction Design Association - IxDA

09/2009 – ACM, Association for Computing Machinery

2012 – Systers group

Professionals in the group, who are participated at Grace Hopper Celebration of Women in Computing Conference.

Talks

Paper Talks 2014 "Neural-Network Modeling of Bayesian Learning and Inference" Iowa State University, Ames, IA, USA 2011 "Crowd sourcing: Why People Participate in These Studies?" Iowa State University, Ames, IA, USA 2010 "ContraVision: Exploring Users' Reactions to Futuristic Technology" Iowa State University, Ames, IA, USA Research Talks 2011 **Color Perception** Feb 25, 2011, Iowa State University, Ames, IA, USA 2010 Wearable Memory Aid Technologies Iowa State University, Ames, IA, USA 2010 Social Networking Site Design for Older Adults October 2010, Iowa State University, Ames, IA, USA 2010 New Methods for Robots: Learning to Press Doorbell Buttons April 2010, Iowa State University, Ames, IA, USA 2010 Data Mining with R: Exploring Global Terrorism Database April 2010, Iowa State University, Ames, IA, USA 2009 **External Memory Aid Devices**

December 2009, Iowa State University, Ames, IA, USA

Visual Representation of Informational Data Structures

December 2009, Iowa State University, Ames, IA, USA

Services

2009

	Conference Organization
2006	Organizing committee member, National E-signature Conference Ankara, Republic of Turkey
	use of electronic signatures on online platforms
	Departmental Tasks
2005 – 2009	Committee Member, CEng Department, Gazi University Ankara, Republic of Turkey
	a committee created for evaluating outcomes of industry oriented internship based on student reports.