

## BARIS UNVER



Beytepe Mah. 1613 Sok. No: 22 Cankaya/Ankara, TURKEY

+90 (505) 820-23-03

[baris.unver@turkai.com](mailto:baris.unver@turkai.com)

[turkai.com](http://turkai.com) | [bunver.com](http://bunver.com)

[linkedin.com/in/barisunver](https://www.linkedin.com/in/barisunver)

[twitter.com/brsunv](https://twitter.com/brsunv)



## EDUCATION

09/2014 – Present	<b>University of Minnesota</b> , Minneapolis, Minnesota, USA 5 <sup>th</sup> year Ph.D. Student Major: Computer Science Advisor: <a href="#">Prof. Lana Yarosh</a>
09/2010 – 09/2012	<b>University of Hacettepe</b> , Ankara, TURKEY Master of Science received Major: Information Technology, Minor: Law
10/2005 – 07/2006	<b>University of Hacettepe</b> , Ankara, TURKEY Graduate level education completed Major: Digital Communication and Electronics
10/2004 – 07/2005	<b>Communications and Information Systems School of Turkish Army</b> , Ankara, TURKEY Graduate level education completed Major: Communication and Information Systems
08/2000 – 08/2004	<b>Turkish Military Academy</b> , Ankara, TURKEY Bachelor of Science received Major: System Engineering, Minor: Electrics and Electronics
08/1996 – 08/2000	<b>Kuleli Military High School</b> , Istanbul, TURKEY

## PUBLICATIONS

HCII'19 <i>Orlando, USA</i> Accepted	Heterogeneous Device Arrangements Affect Both Partners' Experiences in Collaborative Media Spaces <b>HP Labs</b>
ISS'18 <i>Tokyo, Japan</i> Published	<a href="#">Hands-Free Remote Collaboration Over Video: Exploring Viewer and Streamer Reactions</a> <b>Microsoft Research</b>
MobileHCI'18 <i>Barcelona, Spain</i> Published	<a href="#">Wish You Were Here: Being Together Through Composite Video and Digital Keepsakes</a> <b>Microsoft Research</b>

CSCW'18 New Jersey, USA Published	<a href="#">SqueezeBands: Mediated Social Touch Using Shape Memory Alloy Actuation</a> <b>University of Minnesota</b>
UbiComp'17 Hawaii, USA Published	<a href="#">Asymmetric Device Interaction with Projector-Camera Systems</a> <b>HP Labs</b>
CHI EA'17 Denver, USA Published	<a href="#">Freedge: Fighting Food Insecurity with Connected Infrastructure</a> <b>University of Minnesota</b>
CHI EA'16 San Jose, USA Published	<a href="#">ShareTable Application for HP Sprout</a> <b>University of Minnesota</b>

## AWARDS

---

UbiComp'17	<a href="#">Best Demo Award</a> <a href="#">Ph.D. Student Baris Unver and Prof. Lana Yarosh Receive Best Demo Award at UbiComp'17</a>
------------	------------------------------------------------------------------------------------------------------------------------------------------

## INDUSTRIAL RESEARCH

---

05/2017 – 08/2017	<b>Microsoft Research</b> Research Intern <a href="#">Social Computing - NeXus</a> , Redmond, WA, USA
05/2016 – 08/2016	<b>HP Labs</b> Research Intern <a href="#">Immersive Experiences Lab</a> , Palo Alto, CA, USA <ul style="list-style-type: none"> <li>• <i>Summer 2016 Interns at HP Labs – Baris Unver</i></li> <li>• <i>HP Labs Keeps Exploring New Experiences</i></li> </ul>

## PATENTS

---

February 15, 2018	<a href="#">SENSING APPLICATION USE WHILE DRIVING</a>
August 24, 2017	<a href="#">SHARING PROJECTOR-CAMERA WORKSPACES</a>

## RESEARCH AREAS

<b>Person Recognition</b>	<ul style="list-style-type: none"><li>• Face Detection</li><li>• Facial Recognition</li><li>• Body Pose Analysis</li></ul>
<b>Autonomous Vehicles, Self-Driving Cars</b>	<ul style="list-style-type: none"><li>• Computer Vision</li><li>• Localization</li><li>• Sensor Fusion</li><li>• HD Mapping</li><li>• Prediction</li><li>• Navigation and Route Planning</li><li>• Control</li></ul>
<b>Artificial Intelligence</b>	<ul style="list-style-type: none"><li>• Machine Learning</li><li>• Neural Networks</li><li>• Deep Learning</li></ul>
<b>Video Mediated Communication Systems</b>	<ul style="list-style-type: none"><li>• Live Streaming</li><li>• 360-degree Videos</li><li>• Video Analysis</li></ul>
<b>Internet of Things (IoT)</b>	<ul style="list-style-type: none"><li>• Person Tracking Systems</li><li>• Vehicle Tracking Systems</li><li>• GIS</li></ul>

## TEACHING

Summer 2019	<b>Instructor</b> TOBB ETU, Computer Science, Ankara, Turkey
Spring 2016 - Present	<b>Research Assistant</b> University of Minnesota, Computer Science Department
Fall 2015	<b>Teaching Assistant</b> University of Minnesota, Computer Science Department CSCI 5115 - User Interface Design, Implementation and Evaluation
Summer 2015 - Present	<b>Research Assistant</b> University of Minnesota, Psychology Department
Spring 2015 - Present	<b>Researcher</b> GroupLens, University of Minnesota
04/2012 – 05/2012	<b>Instructor</b> , Cellular Mobile Radio Communication Systems, Pale, Bosnia and Herzegovina, EUFOR ALTHEA Operation

## VOLUNTEERSHIP

---

- ACM SIGCHI  
CHI'16
- Executive Committee Volunteers
  - Student Volunteer
  - CHI4Good

## WORK AND LEADERSHIP EXPERIENCES

---

- 10/2018 – Present     **Advisor of Turkish Gendarmerie**  
[baris.unver@jandarma.gov.tr](mailto:baris.unver@jandarma.gov.tr)  
Headquarter of Turkish Gendarmerie General Command  
+90 (312) 456 46 14  
Bestepe, Ankara, TURKEY
- 
- 09/2018 – Present     **Turk AI – Artificial Intelligence Systems Inc.**  
CEO, Founder  
Bilkent CyberPark Technology Development Area, Ankara, TURKEY
- 
- 07/2014 – 9/2014     **C4ISR Battalion Commander**, Sirnak, TURKEY  
Commanded to an expert unit for providing special commando  
brigade's tactical communication and information supports.
- 
- 07/2010 – 07/2014     **Project Officer**, Turkish Gendarmerie General Command  
Headquarter, 2010-2014, Ankara, TURKEY
- Learning Management Systems (Moodle)
  - E-Learning Systems (Adobe Connect, Apache OpenMeetings)
  - IPTV, Adobe Media Server
  - Mobile Video Streaming over 3G
  - JEMUS – APCO 25, Integrated Communication and Information Systems for Turkish Gendarmerie (Digital wireless and wired communication, messaging and data querying applications, vehicle and personnel tracking systems, GIS applications with ArcGIS)
  - Officer and Non-Commissioned Officer Education Planning
- 
- 07/2006 – 07/2010     **Company and Team Commander**, Turkish Gendarmerie General  
Command Signal Corps Battalion, Izmir, TURKEY  
Leaded, commanded and educated over 3.000 soldiers, cadets,  
officers, and non-commissioned officers.

## INTERESTS AND RELATED SKILLS

---

### Full Stack Software Developer

- C++, C#, Python, PHP, MongoDB, MySQL, Meteor, Node.js, HTML, CSS, JavaScript, jQuery, ActionScript, Delphi, OpenCV
- WebRTC, Media Servers, Live Video Streaming, A/V Operating Systems
- Linux and Apache Web Server Management
- Mobil App Development
- Raspberry Pi, Arduino, BLE, UWB

### Entrepreneurship and Start-ups

- [Kidi](#) – Smart Tracking System, 2018
- [Hoops](#) – Location Based Professional Network, 2018
- TrTube – Video Sharing Platform, 2006 – 2013 (100K daily unique visitors).
- DiyetListesi – Online Diet Counseling Platform, 2012 – 2013.
- SinavZ – Online Examination System, 2010 – 2013.
- YouFeed – Live Video Streaming App like Periscope, 2011 – 2012.
- MaxiSee – Video Chat App for Facebook, 2010 – 2011 (First video chat app on Facebook).
- MaksiSMS – Text Messaging System and Facebook App (2009 - 2010).
- MaksiMail – Video Mail System, 2008 – 2010.
- Izlec – Video Search Engine, 2007 – 2010 (10M video meta-data and files).

Scuba Diving: Licensed 3 Stars CMAS Diver

Languages: English, Turkish

## REFERENCES

---

- [Lana Yarosh](#), Assistant Professor, Computer Science and Engineering Department, University of Minnesota.  
[lane@umn.edu](mailto:lane@umn.edu)
- [Kori Inkpen](#), Principal Researcher and Research Manager, Microsoft Research, Redmond, Washington, ABD.  
[kori@microsoft.com](mailto:kori@microsoft.com)
- [Mirjana Spasojevic](#), VP, Head of Immersive Experiences, HP Labs, HP Inc, Palo Alto, California, ABD.  
[mirjana.spasojevic@hp.com](mailto:mirjana.spasojevic@hp.com)

- [Alexander Thayer](#), Director, Chief Experience Architect, Immersive Experiences Lab, HP Labs, HP Inc, Palo Alto, California, ABD.  
[alexander.thayer@hp.com](mailto:alexander.thayer@hp.com)
- [James N. Butcher](#), Professor Emeritus, Psychology Department, University of Minnesota, Washington D.C, ABD.  
[butch001@umn.edu](mailto:butch001@umn.edu)