

# Ira Kemelmacher-Shlizerman

---

updated: Feb, 2018

## CONTACT

185 Stevens Way, Seattle WA 98195-2350  
Phone: (206) 616-0621  
Fax: (206) 543-2969  
Email: [kemelmi@cs.washington.edu](mailto:kemelmi@cs.washington.edu)  
Web: <http://homes.cs.washington.edu/~kemelmi>

## EMPLOYMENT

### Present roles:

Assistant Professor, **Allen School of Computer Science, University of Washington**  
2013.04 - present

Founder & Co-Director, **UW Reality Lab**  
2018.1 - present

Research Scientist, **Facebook (Reactive Media, AR/VR)**  
2016.11 - present

Co-Director, **UW Graphics and Imaging Lab (GRAIL)**  
2013 - present

### Previous roles:

Founder & CEO, **Dreambit** LLC (acquired by Facebook)  
2016.05 - 2016.10

Consultant, **Google** (tech transferred "Face Movies")  
2010.03 - 2010.12

## EDUCATION

University of Washington, Post-Doc in Computer Science  
2009 - 2012  
Advisor: Steve Seitz

Weizmann Institute of Science, Ph.D. in Computer Science and Applied Mathematics  
2005 - 2009  
Advisor: Ronen Basri

Weizmann Institute of Science, M.Sc. in Computer Science and Applied Mathematics  
2002 - 2004  
Advisor: Ronen Basri

Bar-Ilan University, B.Sc. in Computer Science and Mathematics  
1998 - 2001

#### COMMERCIAL PRODUCTS:

2016, Founded startup [dreambit.xyz](http://dreambit.xyz). Acquired by Facebook Inc.

2011, Created [Face Movies](#). Tech transferred to Google Inc.

#### DISTINCTIONS

NVIDIA I am AI, 2017

“Geek of the week” by Geekwire, 2017

Dreambit acquired by Facebook, 2016

[“Innovation of the Year Award”](#), 2016

[Madrona Prize 1st place](#), 2015

Best paper award runner up, FDG 2015

[Cover](#) Communications of the ACM Research Highlights, 2014

Google Faculty Research Award, 2014

Cover SIGGRAPH, 2011

[Face Movies](#) tech transferred to Google, 2011

#### PUBLICATIONS REFEREED JOURNALS AND CONFERENCE PAPERS

1. Eli Shlizerman, Andrew Denyes, Francis Ge, **Ira Kemelmacher-Shlizerman**, Video Flights, submitted to SIGGRAPH ASIA, 2018
2. Shu Liang, Xiufeng Huang, Xianyu Meng, Kunyao Chen, Linda Shapiro, **Ira Kemelmacher-Shlizerman**, Video to Fully Automatic 3D Head Model, submitted to SIGGRAPH ASIA, 2018

3. Chung-Yi Weng, Brian Curless, **Ira Kemelmacher-Shlizerman**, Photo Wake-Up: 3D Character Animation from a Single Photo, submitted to SIGGRAPH ASIA, 2018
4. Eli Shlizerman, Lucio Dery, Hayden Shochat, **Ira Kemelmacher-Shlizerman**, “Audio to Body Dynamics”, CVPR, 2018  
[In the media: CNBC](#)
5. Konstantinos Rematas, **Ira Kemelmacher-Shlizerman**, Brian Curless, Steve Seitz, “Soccer on Your Tabletop”, CVPR, 2018  
[In the media: New Scientist, NVIDIA,...](#)
6. Supasorn Suwajanakorn, Steve Seitz, **Ira Kemelmacher-Shlizerman**, “Synthesizing Obama: Learning Lip Sync from Audio”, ACM Transactions on Graphics (SIGGRAPH), 2017  
[In the media: CNN, BBC, Wall Street Journal, NY Times, TIME, The Atlantic, etc.](#)
7. Aaron Nech and **Ira Kemelmacher-Shlizerman**, Level Playing Field for Million-Scale Face Recognition, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2017.
8. Shu Liang, Linda Shapiro, **Ira Kemelmacher-Shlizerman**, Head Reconstruction from Internet Photos, European Conference on Computer Vision (ECCV) 2016
9. **I. Kemelmacher-Shlizerman**, Transfiguring Portraits, ACM Transactions on Graphics (SIGGRAPH) 2016  
[In the media: The next web, Engadget, TechCrunch, KING5TV, Daily Mail, ...](#)  
[Basis for my startup Dreambit LLC \(acquired by Facebook Inc.\)](#)
10. **I. Kemelmacher-Shlizerman**, E. Brossard, S. Seitz, D. Miller, The MegaFace Benchmark: Million Faces for Large Scale Recognition. IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2016  
> 1000 participants. [In the media: TechCrunch, UW Today, Daily Mail, The Atlantic, Planet Biometrics, IEEE Spectrum...](#)
11. S. Suwajanakorn, S. Seitz, **I. Kemelmacher-Shlizerman**, What makes Tom Hanks look like Tom Hanks, International Conference on Computer Vision (ICCV), Chile, 2015  
[In the media: The Atlantic, Mashable, MIT Tech Review, Wired, ...](#)  
[Madrona Prize, Innovation of the Year by Geekwire, 2016](#)
12. K. Tuite and **I. Kemelmacher-Shlizerman**, The Meme Quiz: A Facial Expression Game Combining Human Agency and Machine Involvement, Foundations of Digital Games (FDG), 2015  
[Best paper award runner-up](#)
13. S. Liang, **I. Kemelmacher-Shlizerman**, L. Shapiro, 3D Face Hallucination from a Single Depth Frame, International Conference on 3D Vision (3DV), Tokyo, Dec 2014
14. **I. Kemelmacher-Shlizerman**, E. Shechtman, R. Garg, S. Seitz, Moving Portraits,

Comm. of the ACM, Research Highlights, Sep 2014  
[Cover of the Communications of the ACM, and video interview by the CACM.](#)

15. S. Suwajanakorn, **I. Kemelmacher-Shlizerman**, S. Seitz, Total Moving Face Reconstruction, European Conference on Computer Vision (ECCV), Zurich, Sep 2014.
16. **I. Kemelmacher-Shlizerman**, S. Suwajanakorn, S. Seitz, Illumination-aware Age Progression, Proc. of Computer Vision Pattern Recognition (CVPR), June 2014.  
[Front page of the Seattle Times](#), [TV episodes on the software on CBS, NBC, etc.](#)
17. **I. Kemelmacher-Shlizerman**, Internet-based morphable model. International Conf. Computer Vision (ICCV), Sydney, Dec 2013
18. **I. Kemelmacher-Shlizerman**, R. Basri, B. Nadler, 3D Face Reconstruction from Single Two-tone and Color images, Shape Perception in Human and Computer Vision, Springer, 2013
19. M. Arie-Nachimson, S. Kovalsky, **I. Kemelmacher-Shlizerman**, A. Singer, and R. Basri, Global Motion Estimation from Point Matches, International Conf. on 3D Vision (3DV), 2012.
20. **I. Kemelmacher-Shlizerman** and S.M. Seitz, Collection Flow, Proc. of Computer Vision Pattern Recognition (CVPR), 2012
21. **I. Kemelmacher-Shlizerman**, S.M. Seitz, Face Reconstruction in the Wild, International Conference on Computer Vision (ICCV), 2011
22. **I. Kemelmacher-Shlizerman**, E. Shechtman, R. Garg, S.M. Seitz, Exploring Photobios, ACM Transactions on Graphics (SIGGRAPH) 2011.  
[SIGGRAPH back cover and trailer.](#)  
[Tech transferred to Google Inc.](#)
23. **I. Kemelmacher-Shlizerman**, A. Sankar, E. Shechtman, S.M. Seitz, Being John Malkovich, European Conference on Computer Vision (ECCV), 2010
24. **I. Kemelmacher-Shlizerman**, R. Basri, 3D Face Reconstruction from a single image using a single reference face shape, IEEE Trans. on Pattern Analysis and Machine Int. (PAMI), 2010
25. **I. Kemelmacher-Shlizerman**, R. Basri, B. Nadler, 3D Shape reconstruction of Mooney Faces, IEEE Conf. on Computer Vision and Pattern Recog. (CVPR) 2008
26. D. Mahajan, **I. Kemelmacher-Shlizerman**, R. Ramamoorthi, P.N. Belhumeur, A Theory of Locally Low dimensional Light Transport, ACM Trans. on Graphics (SIGGRAPH), 2007
27. R. Basri, D.W. Jacobs, **I. Kemelmacher**, Photometric Stereo with General Unknown lighting, International Journal of Computer Vision (IJCV), 2007

28. **I. Kemelmacher-Shlizerman**, R. Basri, Molding Face Shapes by Example, European Conf. Computer Vision (ECCV), 2006
29. **I. Kemelmacher-Shlizerman**, R. Basri, Indexing with Unknown Illumination and Pose, IEEE Conf. on Computer Vision and Pattern Recog. (CVPR) 2005.

#### PATENTS (under Ira Kemelmacher-Shlizerman and Irena Kemelmaher)

1. Transfiguring Portraits, I. Kemelmacher-Shlizerman, July 6, 2016, US 62/358,749 (Assigned to Dreambit LLC, now assigned to Facebook)
2. Face and Expression Aligned Movies, S.M. Seitz, R. Garg, I. Kemelmacher, US 61/371,934, 2015 (Assigned to Google Inc)
3. Example based 3D reconstruction, R. Basri, I. Kemelmacher, T. Hassner, US 60/750,054, 2009

#### AFFILIATIONS

Member, IEEE Computer Society

Member, Association of Computing Machinery (ACM)

#### SERVICE

[Expert Network](#), LDV capital, 2018

SIGGRAPH, Technical Papers Committee, 2018

Area Chair, IEEE Computer Vision and Pattern Recognition (CVPR), 2018

SIGGRAPH, Technical Papers Committee, 2017

Judge (Startup Competition), LDV Vision Summit, New York City, 2017

Area Chair, IEEE Computer Vision and Pattern Recognition (CVPR), 2016

Program Coordination Chair, IEEE Computer Vision and Pattern Recognition (CVPR), 2016

Doctoral Consortium, CVPR 2016

Judge (Startup Competition), LDV Vision Summit, New York City, 2015

Panelist, National Science Foundation (NSF), 2015

Panelist, Intel ISTC, 2015

Program Committee, Eurographics 2015

Program Committee, International Conference on Computational Photography, 2014

Program Committee, International Conference on Computational Photography, 2013

## SPEECHES KEYNOTES, INVITED TALKS, SEMINARS

2018 Keynote, [Xconomy Napa Summit](#), Napa, June

[Distinguished colloquium, 100 years of Women](#), College of William & Mary, October

Invited lecture, [Machine Learning for 3D Understanding](#), Munich

Invited lecture, Tel-Aviv University, Israel

Invited lecture, UC Berkeley, CA

Invited lecture, Stanford, CA

Invited lecture, MIT

Distinguished Speakers Keynote, [Max Planck Institute for Intelligent Systems](#), Germany

Invited talk, CVPR Area Chairs Workshop, Toronto, Feb

Invited talk, [International Workshop on Computer Vision](#), Modena, Italy, May

Invited talk, [Bridges to 3D](#), with CVPR, Salt-Lake City, June

Invited talk, Augmented Reality Visioning Workshop, Washington DC, Aug

2017 [Deep Learning Podcast](#), Montreal, Oct

Invited speaker, [TEDxVienna](#), Vienna, Oct

Invited speaker, [Deep Learning Summit](#), Montreal, Oct

Invited speaker, "Frontier in Video Technology", July, Adobe, San Jose

Keynote, [LDV Vision Summit](#), NYC, May

Invited colloquium, [TTI Chicago](#), Chicago, May

- Invited lecturer, [Winter school for Computer Science and Engineering](#) organized by Takeo Kanade, Yair Weiss, and Alexei Efros at the Israel Institute of Advanced Studies (IIAS), Jerusalem, January [Recorded Lectures](#)
- Invited talk, ImageXD workshop, [E-Science Institute](#), UW, March
- 2016 Invited talk, [CVPR Area Chairs Workshop](#), Vancouver, Feb
- Invited talk, Royal Society's "Imaging in Graphics, Vision and Beyond", UK, May
- Keynote, ["3D Visual computing - graphics, geometry and imaging"](#), Technion, May
- 2015 Invited Speaker, Harvey Mudd College, CA, USA, Nov.
- Keynote, EmotiW, ACM International Conference on MultiModal Interaction, Nov.
- Invited talk, University of California San-Diego, CS colloq., March.
- Invited talk, MIT EECS colloq., April.
- Invited talk, University of Texas Austin CS colloq., April.
- Invited talk, Cornell University, CS, April.
- 2014 Distinguished lecture, Jump Trading, Chicago, USA, Dec
- Invited talk, "Storytelling with images and videos" workshop with the ECCV, Zurich
- Invited talk, Intellectual Ventures, "Global Good Collaboration", Bellevue, WA, USA, May.
- 2013 Invited talk, "Scenes from Video" workshop with the International Conference on Computer Vision, Barossa Valley, Australia, Dec.
- Dagstuhl invited seminar on Real-world visual computing, Germany, Oct.
- Keynote, National Center for Women and Information Technology (NCWIT) award, Feb.
- 2012 Invited talk, Facebook, Seattle, Nov.
- Invited talk, "At the intersection of Vision, Graphics, Learning and Sensing" Workshop, Microsoft Research, Cambridge, UK
- Invited talk, Intel Labs, Santa Clara, May.
- Invited talk, EPFL, Lausanne, Switzerland. Apr.

- Invited talk, University of Michigan CS, Apr.
- Invited talk, Johns Hopkins University, Apr.
- Invited talk, Carnegie Mellon, Robotics Institute and CS, Mar.
- Invited talk, Stanford University, CS+EE, Mar.
- Invited talk, Princeton University, CS colloq., Mar.
- Invited talk, University of Minnesota, CS colloq., Feb.
- Invited talk, University of Washington, CS colloq., Feb.
- 2011 Invited talk, Princeton University, PACM, Feb.
- Invited talk, New York University, NYC, Nov.
- 2010 Invited talk, Adobe, USA, Apr.
- Invited talk, Princeton University, PACM, March
- 2008 Invited talk, Toyota Technological Institute, Chicago, USA, Mar.
- Invited talk, Brown University., Mar.
- Invited talk, Harvard University, Mar.
- Invited talk, California Institute of Technology, Mar.
- 2006 Invited talk, University of Maryland, Aug.
- Israel Computer Vision Day, Jan.

#### SELECTED MEDIA COVERAGE

- |           |               |   |
|-----------|---------------|---|
| June 2018 | NVIDIA        | <a href="https://news.developer.nvidia.com/ai-transforms-recorded-soccer-games-into-3d-holograms/?ncid=nv--42946">https://news.developer.nvidia.com/ai-transforms-recorded-soccer-games-into-3d-holograms/?ncid=nv--42946</a>               |
| June 2018 | New Scientist | <a href="https://www.newscientist.com/article/2171113-watch-real-football-matches-in-miniature-played-on-your-desk/">https://www.newscientist.com/article/2171113-watch-real-football-matches-in-miniature-played-on-your-desk/</a>         |
| Jan 2018  | Geekwire      | <a href="https://www.geekwire.com/2018/univ-washington-opens-virtual-augmented-reality-research-lab-funded-tech-giants/">https://www.geekwire.com/2018/univ-washington-opens-virtual-augmented-reality-research-lab-funded-tech-giants/</a> |
| Jan 2018  | Xconomy       | <a href="https://www.xconomy.com/seattle/2018/01/08/facebook-google-and-huawei-fund-new-ar-vr-reality-lab-at-uw/">https://www.xconomy.com/seattle/2018/01/08/facebook-google-and-huawei-fund-new-ar-vr-reality-lab-at-uw/</a>               |



Jan 2018	Seattle Times	<a href="https://www.seattletimes.com/seattle-news/education/uw-receives-6-million-to-create-academic-center-for-augmented-virtual-reality/">https://www.seattletimes.com/seattle-news/education/uw-receives-6-million-to-create-academic-center-for-augmented-virtual-reality/</a>
Jan 2018	UW	<a href="https://www.washington.edu/news/2018/01/08/uw-reality-lab-launches-with-6m-from-tech-companies-to-advance-augmented-and-virtual-reality-research/">https://www.washington.edu/news/2018/01/08/uw-reality-lab-launches-with-6m-from-tech-companies-to-advance-augmented-and-virtual-reality-research/</a>
Jan 2018	NYTimes	<a href="https://www.nytimes.com/interactive/2018/01/02/technology/ai-generated-photos.html">https://www.nytimes.com/interactive/2018/01/02/technology/ai-generated-photos.html</a>
Dec 2017	CNBC	<a href="#">Facebook A.I. researchers figured out how to make avatars look like they're playing music</a>
July 2017	Geekwire	<a href="https://www.geekwire.com/2017/ira-kemelmacher-shlizerman/">https://www.geekwire.com/2017/ira-kemelmacher-shlizerman/</a>
July 2017	TIME	<a href="http://time.com/4862865/barack-obama-speech-lip-syncing-audio-university-of-washington/">http://time.com/4862865/barack-obama-speech-lip-syncing-audio-university-of-washington/</a>
July 2017	Wall Street Journal	<a href="https://www.wsj.com/articles/the-researchers-who-synthesized-video-of-barack-obama-1500655962">https://www.wsj.com/articles/the-researchers-who-synthesized-video-of-barack-obama-1500655962</a>
July 2017	CNN	<a href="http://www.cnn.com/videos/tech/2017/07/14/orig-obama-lip-sync.cnn">http://www.cnn.com/videos/tech/2017/07/14/orig-obama-lip-sync.cnn</a>
July 2017	BBC	<a href="http://www.bbc.com/news/av/technology-40598465/fake-obama-created-using-ai-tool-to-make-phoney-speeches">http://www.bbc.com/news/av/technology-40598465/fake-obama-created-using-ai-tool-to-make-phoney-speeches</a>
July 2017	Geekwire	<a href="https://www.geekwire.com/2017/uws-lip-syncing-obama-demonstrates-new-technique-turn-audio-clips-realistic-video/">https://www.geekwire.com/2017/uws-lip-syncing-obama-demonstrates-new-technique-turn-audio-clips-realistic-video/</a>
July 2017	Daily Mail	<a href="http://www.dailymail.co.uk/sciencetech/article-4686964/Lip-syncing-AI-lets-words-s-mouth.html">http://www.dailymail.co.uk/sciencetech/article-4686964/Lip-syncing-AI-lets-words-s-mouth.html</a>
July 2017	The Atlantic	<a href="https://www.theatlantic.com/technology/archive/2017/07/what-do-you-do-when-you-cannot-believe-your-own-eyes/533154/">https://www.theatlantic.com/technology/archive/2017/07/what-do-you-do-when-you-cannot-believe-your-own-eyes/533154/</a>
Oct 2016	The Atlantic	<a href="http://www.theatlantic.com/technology/archive/2016/10/its-bill-murray-a-facial-recognition-algorithm-settles-the-debate/505574/">http://www.theatlantic.com/technology/archive/2016/10/its-bill-murray-a-facial-recognition-algorithm-settles-the-debate/505574/</a>
July 2016	TechCrunch	<a href="https://techcrunch.com/2016/07/21/this-amazing-search-engine-automatically-face-swaps-you-into-your-image-results/">https://techcrunch.com/2016/07/21/this-amazing-search-engine-automatically-face-swaps-you-into-your-image-results/</a>
July 2016	The next web	<a href="http://thenextweb.com/shareables/2016/07/22/search-engine-lets-swap/#gref">http://thenextweb.com/shareables/2016/07/22/search-engine-lets-swap/#gref</a>
July 2016	Engadget	<a href="https://www.engadget.com/2016/07/22/dreambit-search-engine/">https://www.engadget.com/2016/07/22/dreambit-search-engine/</a>
July 2016	Daily Mail	The ultimate face swap <a href="http://www.dailymail.co.uk/sciencetech/article-3702341/The-ultimate-face-swap-New-search-engine-face-hairstyle-reveal-ll-age.html">http://www.dailymail.co.uk/sciencetech/article-3702341/The-ultimate-face-swap-New-search-engine-face-hairstyle-reveal-ll-age.html</a>
July 2016	Geekwire	Time for a change? <a href="http://www.geekwire.com/2016/uw-dreambit-image-altering-software/">http://www.geekwire.com/2016/uw-dreambit-image-altering-software/</a>

July 2016	IEEE Spectrum	One Million Face Challenge Even the Best Facial Recognition Algorithms <a href="http://spectrum.ieee.org/tech-talk/computing/software/one-million-faces-challenge-even-the-best-facial-recognition-algorithms">http://spectrum.ieee.org/tech-talk/computing/software/one-million-faces-challenge-even-the-best-facial-recognition-algorithms</a>
June 2016	The Atlantic	The Ultimate Face Recognition Algorithm <a href="http://www.theatlantic.com/technology/archive/2016/06/machine-face/488969/">http://www.theatlantic.com/technology/archive/2016/06/machine-face/488969/</a>
June 2016	TechCrunch	<a href="https://techcrunch.com/2016/06/23/facial-recognition-systems-stumble-when-confronted-with-million-face-database/">https://techcrunch.com/2016/06/23/facial-recognition-systems-stumble-when-confronted-with-million-face-database/</a>
June 2016	UW Today	How Well Do Facial Recognition Algorithms cope with a Million Strangers <a href="http://www.washington.edu/news/2016/06/23/how-well-do-facial-recognition-algorithms-cope-with-a-million-strangers/">http://www.washington.edu/news/2016/06/23/how-well-do-facial-recognition-algorithms-cope-with-a-million-strangers/</a>
June 2016	TechCrunch	Students demonstrate their HoloLens apps after a quarter of VR and AR design <a href="http://techcrunch.com/2016/06/10/students-demonstrate-their-hololens-apps-after-a-quarter-of-vr-and-ar-design/">http://techcrunch.com/2016/06/10/students-demonstrate-their-hololens-apps-after-a-quarter-of-vr-and-ar-design/</a>
June 2016	GeekWire	The World's First HoloLens Class at UW <a href="http://www.geekwire.com/2016/worlds-first-hololens-class-uw-computer-science-students-show-off-mixed-reality-projects/">http://www.geekwire.com/2016/worlds-first-hololens-class-uw-computer-science-students-show-off-mixed-reality-projects/</a>
May 2016	GeekWire	Revealed: The Winners of the 2016 GeekWire Awards <a href="http://www.geekwire.com/2016/revealed-winners-2016-geekwire-awards/">http://www.geekwire.com/2016/revealed-winners-2016-geekwire-awards/</a>
Apr 2016	Fusion	MegaFace Face Recognition Challenge <a href="http://fusion.net/story/295539/ntechlab-findface-facial-recognition-accuracy-doxing/">http://fusion.net/story/295539/ntechlab-findface-facial-recognition-accuracy-doxing/</a>
Nov 2015	The Atlantic	What Makes Tom Hanks Look Like Tom Hanks <a href="http://www.theatlantic.com/technology/archive/2015/12/what-makes-tom-hanks-look-like-tom-hanks/419238/">http://www.theatlantic.com/technology/archive/2015/12/what-makes-tom-hanks-look-like-tom-hanks/419238/</a>
Nov 2015	MIT Tech Review	Software reconstructs famous faces from still images captures their unique mannerisms <a href="http://www.technologyreview.com/view/544346/software-reconstructs-famous-faces-from-still-images-captures-their-unique-mannerisms/">http://www.technologyreview.com/view/544346/software-reconstructs-famous-faces-from-still-images-captures-their-unique-mannerisms/</a>
Oct 2015	GeekWire	Digital 3D Face Reconstruction Technology wins top prize at UW CSE showcase event <a href="http://www.geekwire.com/2015/digital-3d-face-reconstruction-technology-wins-top-prize-at-uw-computer-science-showcase-event/">http://www.geekwire.com/2015/digital-3d-face-reconstruction-technology-wins-top-prize-at-uw-computer-science-showcase-event/</a>
Jun 2015	Engadget	Celebrities get digital puppets created from paparazzi photos <a href="http://www.engadget.com/2015/06/14/digital-puppets-from-photos/">http://www.engadget.com/2015/06/14/digital-puppets-from-photos/</a>
Jun 2015	New Scientist	A Kevin Spacey CGI puppet - recreated entirely from paparazzi shots <a href="http://ow.ly/O9fP1">ow.ly/O9fP1</a> <a href="http://youtu.be/jZgSEsrv3LQ">youtu.be/jZgSEsrv3LQ</a>

Nov 2014	CBS "Innovation Nation"	Special TV Episode on Aging Software <a href="http://cbsdreamteam.com/the-henry-fords-innovation-nation/episodes/aging-software/">http://cbsdreamteam.com/the-henry-fords-innovation-nation/episodes/aging-software/</a>
Oct 2014	Geekwire	Total Moving Face Reconstruction <a href="http://www.geekwire.com/2014/cse-uw/">http://www.geekwire.com/2014/cse-uw/</a>
Oct 2014	Fox News	How age progression software helps find missing kids <a href="http://www.foxnews.com/tech/2014/10/17/how-age-progression-software-helps-find-missing-kids/">http://www.foxnews.com/tech/2014/10/17/how-age-progression-software-helps-find-missing-kids/</a>
Oct 2014	Inside Science	TV Episode: Photos on Fast Forward, Marsha Lewis <a href="http://www.insidescience.org/content/photos-fast-forward/2186">http://www.insidescience.org/content/photos-fast-forward/2186</a>
Sep 2014	Intel Labs	<a href="http://blogs.intel.com/intellabs/2014/09/04/technology-can-help-bring-missing-children-home/">http://blogs.intel.com/intellabs/2014/09/04/technology-can-help-bring-missing-children-home/</a>
Sep 2014	ACM	Moving Portraits, Tom Geller <a href="https://vimeo.com/103455569">https://vimeo.com/103455569</a>
May 2014	NBC's Today Show	What will I look like at 60? New computer program gives sneak peek <a href="http://www.today.com/health/what-will-i-look-60-new-computer-program-gives-sneak-2D79656260">http://www.today.com/health/what-will-i-look-60-new-computer-program-gives-sneak-2D79656260</a>
May 2014	The Seattle Times front page (#1 read article online)	What will you look like when you grow old? UW has software to show you, Erik Lanitis <a href="http://seattletimes.com/html/localnews/2023564592_agingsoftwarexml.html">http://seattletimes.com/html/localnews/2023564592_agingsoftwarexml.html</a>
Apr 2014	Daily Mail UK	All grown up! <a href="http://www.dailymail.co.uk/sciencetech/article-2601373/Age-progression-software-lets-child-look-like-grow-up.html">http://www.dailymail.co.uk/sciencetech/article-2601373/Age-progression-software-lets-child-look-like-grow-up.html</a>
Apr 2014	TV and radio interviews NPR, KIROTV, KOMO, KING5	NPR/KUOW, KIROTV, KOMO4, KING5 <a href="http://homes.cs.washington.edu/~kemelmi/press.html">http://homes.cs.washington.edu/~kemelmi/press.html</a>
Apr 2014	Wired UK	Software shows your child's future face, Olivia Solon <a href="http://www.wired.co.uk/news/archive/2014-04/14/ageing-faces">http://www.wired.co.uk/news/archive/2014-04/14/ageing-faces</a>
Apr 2014	GeekWire	Future faces: Software lets parents see what their kids will look like in 50 years Taylor Soper <a href="http://www.geekwire.com/2014/software-lets-parents-see-kids-will-look-like-50-years/">http://www.geekwire.com/2014/software-lets-parents-see-kids-will-look-like-50-years/</a>
2011	KING 5 TV interview	Faces age through time with 'Face Movie', Meg Coyle <a href="http://www.king5.com/video/featured-videos/Animated-Digital-Photos-126636958.html">http://www.king5.com/video/featured-videos/Animated-Digital-Photos-126636958.html</a>
2011	New Scientist	Create an animated biography from your photos, Melissae Fellet

		<a href="http://www.newscientist.com/blogs/onepercent/2011/08/create-an-animated-biography-f.html">http://www.newscientist.com/blogs/onepercent/2011/08/create-an-animated-biography-f.html</a>
2011	MSNBC	Software traces faces through time, Alan Boyle <a href="http://www.nbcnews.com/science/software-traces-faces-through-time-121596?franchiseSlug=sciencemain">http://www.nbcnews.com/science/software-traces-faces-through-time-121596?franchiseSlug=sciencemain</a>
2011	CBS News	New photo software can morph faces like Michael Jackson's "Black or White" video, Ysolt Usigan <a href="http://www.cbsnews.com/8301-501465_162-20088189-501465.html">http://www.cbsnews.com/8301-501465_162-20088189-501465.html</a>
2011	Discovery News	Looking animated in your photos Jesse Emspak <a href="http://news.discovery.com/tech/looking-animated-in-your-photos-110812.html">http://news.discovery.com/tech/looking-animated-in-your-photos-110812.html</a>
2011	GeekWire	UW computer science project automates time-lapse pictures Todd Bishop <a href="http://www.geekwire.com/2011/uw-computer-science-project-automates-timelapse-portraits/">http://www.geekwire.com/2011/uw-computer-science-project-automates-timelapse-portraits/</a>
2011	Geek.com	Make a "photobio" video from your digital pics using facial recognition software, Jennifer Bergen <a href="http://www.geek.com/articles/news/make-a-photobio-video-from-your-digital-pics-using-facial-recognition-software-2011086/">http://www.geek.com/articles/news/make-a-photobio-video-from-your-digital-pics-using-facial-recognition-software-2011086/</a>
2011	UW press	Digital photos can animate a face so it ages and moves before your eyes Hannah Hickey <a href="http://news.cs.washington.edu/2011/08/03/exploring-photobios-on-king-5-news/">http://news.cs.washington.edu/2011/08/03/exploring-photobios-on-king-5-news/</a>
2010	Kottke	Really being John Malkovich <a href="http://kottke.org/11/08/really-being-john-malkovich">http://kottke.org/11/08/really-being-john-malkovich</a>

## TEACHING

### UW CSE:

CSE 481v + 599 (Sp'16), new class: [Virtual and Augmented Reality Capstone](#), Press: [GeekWire](#)  
 CSE 457 (Wi'14,Fall'15,Wi'15), Introduction to Computer Graphics (undergrad)  
 CSE 576 (Sp'13), Computer Vision (grad)  
 CSE 455 (Wi'10), Computer Vision (undergrad)

### Weizmann Institute and earlier:

2002,2004 Computer and Human Vision, Weizmann Inst.  
 2008 Advanced topics in computer vision, Weizmann Inst.  
 2005 Statistical Machine Learning, Weizmann Inst.  
 2002-2003 C++ programming, Operating Systems, Open University, Israel  
 2000-2001 Mathematical Logic, Object oriented programming, Bar-Ilan University  
 2004-2005 Linear Algebra, Discrete Math., The Academic College, Dept Comp. Sci,

Israel

ADVISING

POSTDOC

2016 - Konstantinos Rematas

PH.D. STUDENTS

2018 - Benjamin Lee  
2018 - Luyang Zhu  
2016 - Roy Or-EI  
2015 - Chung-Yi Weng  
2014 - 2018 Shu Liang (now at Facebook)  
2013 - 2017 Supasorn Suwajanakorn (now at Google Brain)

MASTER STUDENTS

2016 Aaron Nech (now at Facebook, CVPR'17 paper)  
2013 - 2015 Daniel Miller (now at startup, CVPR'16 paper)

UNDERGRADUATE STUDENTS

2017 - Joseph Zhong, UW CSE  
2016 David Porter, UW CSE (accepted to MSc UW)  
2016 Dylan Swiggett, UW CSE (now at Google)  
2015 Evan Brossard, UW CSE (now at Google, CVPR'16 paper)  
2014 Lukas Bischofberger (now at ETH Zurich)  
2013 Xiaotao Chen (now at eBay)  
2013 Elliott Brossard (now at Google)  
2013 Daniel Graf (now at ETH Zurich)

FUNDING

Co-founded the UW Reality Lab, Funder: gift by Facebook, Google, and Huawei, \$6M, 2018

“Simulation and Improving Facial Aging” (PI), Funder: Government, \$350K, 2016

“The 3D Memex for Virtual Teleportation”, Funder: NSF + Intel (co-PI), \$1.5M, 2015

“Capturing and Modeling the Space of Faces”, Funder: Google Faculty Award (PI), \$65K, 2014

“3D Face Analysis for Face Recognition”, Funder: Samsung gift, USA (PI), \$200K, 2014

“People Analysis in Perceptual Computing”, Funder: Intel ISTC Center (co-PI), \$50K, 2013

“3D Face Modeling from RGBD”, Funder: Intel gift (co-PI), \$50K, 2013

NVIDIA hardware, 2014