

# László A. Jeni

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## Education

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| 2008 – 2012 | <b>The University of Tokyo</b> (Japan)<br>Ph.D., Electrical Engineering and Information Systems<br>Thesis: "Study on Facial Expression Analysis based on 3D Deformable Model" |
| 2010 – 2011 | <b>RIKEN Brain Science Institute</b> (Japan)<br>Certificate in Neuroscience and Cognitive Neuroscience  |
| 1998 – 2004 | <b>Eötvös Loránd University, Faculty of Informatics</b> (Hungary)<br>M.Sc. in Computer Science<br>Thesis: "Artificial Intelligence Techniques used in the Game of Go"         |
| 1993 – 1998 | <b>John von Neumann Secondary School for Computer Technology</b> (Hungary)<br>Computer Programmer (1997)<br>Specialist in Geographical Information Systems (1998)             |

## Appointments and Working Experience

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| 2023 –      | <b>Carnegie Mellon University</b> (USA)<br><u>Assistant Research Professor at the Robotics Institute</u><br><i>Directing the CUBE Lab. My research interests are in Computer Vision, Digital Humans, and Computational Behavior Science, specifically in areas of modeling, understanding, and synthesizing human motion and behavior using diverse sensors.</i> |
| 2019 – 2023 | <u>Systems Faculty at the Robotics Institute</u>   |
| 2015 – 2019 | <u>Project Scientist at the Robotics Institute</u>   |
| 2012 – 2015 | <u>Postdoctoral Researcher at the Robotics Institute</u>   |
| 2011 – 2012 | <b>Realeyes OU</b><br><u>Senior Computer Vision Specialist</u><br><i>Working on scaling-up face-alignment and face-analysis techniques for real-world conditions.</i>  |
| 2007 – 2012 | <b>The University of Tokyo</b> (Japan)<br><u>Research Assistant</u> , Global Center of Excellence Program "Secure-Life Electronics",<br>Department of Electrical Engineering<br><i>Working on real-time facial expression analysis and human-robot interaction in intelligent environments.</i>  |
| 2007 – 2009 | <b>Triensis SRO</b> (Slovakia) – startup<br><u>Co-Founder &amp; CTO</u><br><i>Developing and maintaining a multiplayer, online role-playing game. Leading and managing group of artist and content developers.</i>   |
| 2006 – 2007 | <b>Eötvös Loránd University</b> (Hungary)<br><u>Junior Assistant Professor at the Department of Software Technology &amp; Methodology</u><br><i>Teaching Robotics, Multi-agent systems, Advanced 3D Computer Graphics and Managed DirectX/XNA</i>  |

2005 – 2006	<b>Eötvös Loránd University</b> (Hungary) <u>Lecturer at the Department of Media &amp; Educational Technology</u> <i>Teaching 3D game programming, Real-time 3D graphics, Advanced Assembly programming</i>
2003 – 2004	<b>ArchiData Ltd.</b> (Hungary) <u>Software developer</u> <i>Developing the 3DClick architectural CAD software. DirectX API programming (texture mapping, shader programming), photo-rendering integration.</i>

## Funding

<b>Active</b>	<ul style="list-style-type: none"> <li>- <u>Principal-Investigator</u>, "<b>Converging Technologies Center – Generative AI</b>", Fujitsu Ltd., 10/1/2023 – 9/30/2024</li> <li>- <u>Principal-Investigator</u>, "<b>Connecting Vision and Language for Few-shot Learning</b>", Fujitsu Ltd., 6/1/2022 – 5/30/2024</li> <li>- <u>Principal-Investigator</u>, "<b>Understanding Pedestrian Behavior in Smart Cities</b>", Fujitsu Ltd., 11/1/2021 – 2/28/2024</li> <li>- <u>Co-Principal-Investigator</u> (PI: Conrad Tucker, CMU), "<b>Robustness innovations for mobile phone physiology measurement</b>", Bill and Melinda Gates Foundation, 10/1/2019 - 12/15/2023</li> </ul>
<b>Past</b>	<ul style="list-style-type: none"> <li>- <u>Principal-Investigator</u>, "<b>Inferencing Shape and Location from RGB-D in the Wild</b>", Apple Inc., 10/1/2022 - 10/31/2023</li> <li>- <u>Principal-Investigator</u>, "<b>Inferencing Shape and Location from RGB-D</b>", Apple Inc., 3/1/2020 - 2/28/2022</li> <li>- <u>Principal-Investigator</u>, "<b>Dynamic Implicit Neural Representations for Avatar Animation</b>", Fujitsu Ltd., 9/1/2021 – 8/31/2023</li> <li>- <u>Principal-Investigator</u>, "<b>NRI: INT: A New Paradigm for Geometric Reasoning through Structure from Category</b>", National Science Foundation (NSF 1925281), 9/1/2019 - 8/31/2023</li> <li>- <u>Co-Investigator</u> (PI: Jeffrey Cohn, University of Pittsburgh), "<b>Automatic Multimodal Affect Detection for Research and Clinical Use.</b>" National Institute of Mental Health (NIMH R01), 8/1/2017 – 4/30/2022</li> <li>- <u>Co-Investigator</u> (PI: Wayne Goodman, Baylor Medical School), "<b>Adaptive DBS in Non-Motor Neuropsychiatric Disorders: Regulating Limbic Circuit Imbalance.</b>" National Institutes of Health (NIH UH3), 9/30/2016 – 6/30/2022</li> <li>- <u>Co-Investigator</u> (PI: Sameer Anil Sheth), "<b>Deep Brain Stimulation for Depression Using Directional Current Steering and Individualized Network Targeting.</b>", National Institutes of Mental Health (NIMH 1UH3), 10/1/2017 – 9/30/2022</li> <li>- <u>Co-Investigator</u> (PI: Jeffrey Cohn, University of Pittsburgh), "<b>Automated Facial Expression Analysis for Research and Clinical Use.</b>", National Institute of Mental Health (NIMH R01), 4/1/2012 – 7/31/2017</li> <li>- <u>Principal-Investigator</u>, "<b>Protective Mask Sizing App.</b>", Department of Defense/CFD Research Corporation (DoD SBIR), 9/27/2017 - 12/26/2019</li> <li>- <u>Principal-Investigator</u>, "<b>Face/Body Super-resolution for Augment Reality</b>", Facebook Technologies, LLC, 7/1/2019 – 6/30/2020</li> <li>- <u>Principal-Investigator</u>, "<b>Social interaction analysis using multimodal affect analysis</b>", Fujitsu Ltd., 9/15/2018 – 9/14/2020</li> <li>- <u>Principal-Investigator</u>, "<b>Semantic Facial Expression Manipulation</b>", Fujitsu Ltd., 9/1/2020 – 8/31/2021</li> </ul>

## Professional Activities

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- Area Chair of IEEE Conference on Automatic Face and Gesture Recognition (FG 2024)
- Senior Program Committee Member of 9th International Conference on Affective Computing & Intelligent Interaction (ACII 2023)
- General Chair of 1st Vision for Vitals Workshop & Challenge (V4V) (In conjunction with ICCV 2021) <https://vision4vitals.github.io/>
- Senior Program Committee Member of 9th International Conference on Affective Computing & Intelligent Interaction (ACII 2021)
- General Chair of 2nd Workshop on 3D Face Alignment in the Wild – Dense Reconstruction from Video (3DFAW-Video) & Challenge (In conjunction with ICCV 2019) <https://3dfaw.github.io/>
- Area Chair, The 13<sup>th</sup> IEEE Conference on Automatic Face and Gesture Recognition (FG 2018). <http://fg2018.org/>
- Data Chair, Facial Expression Recognition and Analysis Challenge (FERA2017), <http://sspnet.eu/fera2017/>
- General Chair of 1st Workshop on 3D Face Alignment in the Wild (3DFAW) & Challenge (In conjunction with ECCV 2016, <http://mhug.disi.unitn.it/workshop/3dfaw/>)
- Founding member of the Section of Robotics, John von Neumann Computer Society, Hungary
- Editorial Board Member of the International Journal of Computer Vision and Signal Processing (IJCVSP)
- Member of the NAIST International Collaborative Laboratory for Robotics Vision, Nara, Japan, (<http://rvlab.naist.jp/members.html>), 2014 –
- Member of the Student Activities Subcommittee at the IEEE Computational Intelligence Society, 2010 – 2012
- Served and continue to serve on the PC of conferences in vision & ML (CVPR, ICCV, ECCV, ACCV, NeurIPS)

## Awards & Scholarships

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2023	Featured Article - Editorial Pick 2023 August: IEEE TBME
2021	Outstanding Article Award - Editor's Pick 2021: Computer Science (Frontiers, 2021)
2019	Top Reviewer (NeurIPS, 2019, Vancouver, Canada)
2017	Outstanding Reviewer (CVPR 2017, Honolulu, Hawaii)
2015	Best Paper Award (IEEE FG 2015, Ljubljana, Slovenia) Paper: "Dense 3D Face Alignment from 2D Videos in Real-Time"
2015	Outstanding Reviewer Award (IEEE FG 2015, Ljubljana, Slovenia)
2011	Session Best Paper Award (IEEE HSI 2011, Yokohama) Paper: "Using Conditional Random Fields to Validate Observations..."
2010 – 2011	RIKEN Brain Science Training Program (Trainee) By: RIKEN Institute, Japan
2010	Machine Learning Summer School Scholarship (Canberra, Australia)
2007 – 2011	Japanese government scholarship (Monbukagakusho) By: Ministry of Education, Culture, Sports, Science and Technology, Japan
2006 – 2007	Scholarship of the Eötvös Loránd University, predoctoral appointment
2005	OTDK National Student Research Competition, 1 <sup>st</sup> prize (Computer Graphics) By: Council of National Scientific Students' Associations Paper: "Real-time Dual-paraboloid Shadow Mapping"

## Teaching Experience

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<b>Lecturing</b>	<b>Carnegie Mellon University</b>
2021 Fall	16621 - MSCV Project I
2021 Fall	16622 - MSCV Capstone
	<b>Eötvös Loránd University, Budapest, Hungary</b>
2007 Spring	Managed DirectX and XNA (ca. 25 graduate students)
2006F, 2007S	Multi-agent Systems (ca. 25 graduate students)
2006F, 2007S	Robotics (ca. 25 graduate students)
2006 Fall	Advanced 3D Computer Graphics (ca. 40 graduate students):
2005 Fall	3D Game Programming (ca. 30 graduate students):
2003-2006 S.	Advanced Assembly Programming (ca. 30 students):
2003-2006, S.	Real-time 3D Graphics (ca. 30 students):
2004-2006 S.	Fractal Geometry (ca. 20 students):
<b>PhD Adviser</b>	<b>Carnegie Mellon University</b>
2021-2023	Chaoyang Wang, CMU RI PhD (Deep Non-rigid Structure from Motion)
2021-	Mosamkumar Dabhi, CMU RI PhD (Inferencing Shape & Motion from RGB-D)
2021-	Rohan Choudhury, CMU RI PhD (Pedestrian Behavior Forecasting)
2018-	Yaohan Ding, University of Pittsburgh PhD (Automated Facial Affect Analysis for Deep Brain Stimulation)
2018-	Maneesh Bilalpur, University of Pittsburgh PhD (Multimodal machine learning for depression risk estimation)
<b>MSc. Adviser</b>	<b>Carnegie Mellon University</b>
2023-	Aniket Agarwal, MSR (Remote Vitals Estimation)
2023-	Joel Julin, MSR (Controllable Dynamic Neural Representations)
2022-2023	Deepti Upmaka, MSCV (Neural Representations for Avatar Animation)
2022-2023	Nian-Hsuan Tsai, MSCV (Neural Representations for Avatar Animation)
2022-2023	Adithya Sampath, MSCV (Modeling and Understanding Pedestrian Behavior)
2022-2023	Mu Chien Hsu, MSCV (Modeling and Understanding Pedestrian Behavior)
2021-2023	Heng Yu, CMU MSR (Neural Rendering for Avatar Animation)
2021-2023	Aarush Gupta, CMU MSR (Deep Non-rigid Structure from Motion)
2020-2023	Ambareesh Revanur, CMU MSR (Mobile Phone Physiology Measurement)
2019-2020	Dai Li, CMU MSCV (Semantic Facial Expression Manipulation)
2019-2020	Zhuoqian Yang, CMU MSCV (Semantic Facial Expression Manipulation)
2019-2020	Rahul Mysore Venkatesh, CMU MSCV (Implicit 3D representations)
2018-2019	Chenxi Xu, CMU MSCV, (topic: Deep 3D Mesh Reconstruction)
2018-2019	Neeraj Sajjan, CMU MSCV, (topic: Deep 3D Mesh Reconstruction)
2018-2020	Rohith Krishnan Pillai, CMU MSR (topic: Dense 3D Face Reconstruction)
2017-2019	Bhavan Jasani, CMU MSR (topic: Behavior analysis, co-advised with Jeff Cohn)
2017	Wanqiao Ding, CMU ECE (topic: Behavior analysis, co-advised with Jeff Cohn)
	<b>Eötvös Loránd University, Budapest, Hungary</b>
2013	Tamás Nagy and Judit Sebők (co-advised with András Lőrincz for the National Scientific Conference of Students, Project title: "3D Constrained Local Model and its use in Facial Expression Recognition", the project won the 3 <sup>rd</sup> place)
2008	Milán Magdics (M.Sc. Thesis title: "Procedural Modelling in Computer Graphics")
2007	Péter Balázs (M.Sc. Thesis title: "Study on Distributed, Online Games")
<b>Undergrad Supervision</b>	<b>Eötvös Loránd University, Budapest, Hungary</b>
2008	Péter Surányi (B.Sc. Project title: "3D Graphical Engine for Rendering Exterior Scenes")
2007	Krisztián Bokros (B.Sc. Project title: "3D Simulator using UIQ and OpenGL ES")
2007	Gergely Klár (B.Sc. Project title: "Numerical Methods for Cloth Simulation")

2006	Endre Kolláth (B.Sc. Project title: "Generating and Rendering of Near-realistic 3D Trees")
2006	Péter Balázs (B.Sc. Project title: "Networked, 3D Space Simulation using Java3D")
<b>Visiting Scholars</b>	
2022-	Tamas Karacsony (INESCTEC)
2018-	Koichiro Niinuma, (Fujitsu)
2015	Sergey Tulyakov, visiting PhD student (University of Trento)

## Media Coverage

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2022 [M.6]	<b>"Fujitsu, Carnegie Mellon University Collaborate to Develop 'Social Digital Twin' Technology for Smart Cities"</b> , Bloomberg, 2022
2021 [M.5]	<b>"Better deep brain stimulation therapy for OCD"</b> , Science Daily, 2021
2021 [M.4]	<b>"Researchers identify brain signals associated with OCD symptoms, paving way for adaptive treatment"</b> , Science Daily, 2021
2019 [M.3]	<b>"AI based Facial Expression Recognition Technology to Accurately Detect Subtle Changes in Expression"</b> , Yahoo! Finance News, 2019
2019 [M.2]	<b>"Facial recognition: This new AI tool can spot when you are nervous or confused"</b> , ZDNet, 2019
2015 [M.1]	<b>"How New Technology Helps Blind People Explore the World" with Chieko Asakawa</b> , TED@IBM, 2015

## Invited Talks

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2023 [I.16]	<b>Machine Vision for Creating Behavioral Digital Twins</b> The University of Tokyo, colloquium (1 hour) Tokyo, Japan
2023 [I.15]	<b>Machine Vision for Creating Behavioral Digital Twins</b> Machine Learning Summer Meetup Budapest, Hungary
2022 [I.14]	<b>Creating Behavioral Digital Twins</b> Dept of Psychiatry & Behavioral Sciences @ BCM and Dept of Electrical & Computer Engineering @ Rice. Houston, TX
2022 [I.13]	<b>Behavioral Digital Twins</b> Fujitsu FLATS Smart Cities Symposium (1 hour) Virtual, 2022
2019 [I.12]	<b>Multimodal Computational Behavior Understanding</b> Fujitsu Laboratories (1 hour) Tokyo, Japan, 2019
2019 [I.11]	<b>Multimodal Computational Behavior Understanding</b> National Robotics Engineering Center (1 hour) Pittsburgh, PA, USA, 2019
2018 [I.10]	<b>Multimodal Computational Behavior Understanding</b> The University of Tokyo (1 hour) Tokyo, Japan, 2018

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- 2016 [I.9] **Automated 3D Face Tracking for Facial Behavior Analysis**  
Nara Institute of Science and Technology Seminar (1 hour)  
Nara, Japan, 2016
  - 2015 [I.8] **Automated Expression and Gaze Analysis**  
Realeyes Ltd., colloquium (1 hour)  
Budapest, Hungary, 2015
  - 2015 [I.7] **Large-Scale Facial Behavior Understanding**  
RIKEN Advanced Institute for Computational Science (AICS), colloquium (1 hour)  
Tokyo, Japan, 2015
  - 2014 [I.6] **Automated 3D Face Tracking for Facial Behavior Analysis**  
Chuo University, Faculty of Science and Engineering Seminar (1.5 hour)  
Tokyo, Japan, 2015
  - 2014 [I.5] **Automatic Coding of Facial Expressions using Dense 3D Deformable Models**  
Apple Inc., colloquium (1 hour)  
Cupertino, CA, USA, 2014
  - 2011 [I.4] **Affective Computing in Intelligent Environments**  
Eötvös Loránd University, NJSZT Robotics Seminar (1 hour)  
Budapest, Hungary, 2011.
  - 2010 [I.3] **Safe Robot Controlling System using the iSpace Environment**  
Seoul National University, Seminar on Electrical Engineering,  
Seoul, Korea, 2010.
  - 2010 [I.2] **Cognitive Robotics and Emotion Recognition in iSpace Environments**  
Eötvös Loránd University, John von Neumann Computer Society (Section of Robotics)  
Seminar (1 hour)  
Budapest, Hungary, 2010.
  - 2009 [I.1] **Cognitive Robotics in the Intelligent Space**  
University of Pisa, Centro E. Piaggio (1 hour)  
Italy, Pisa, 2009.

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## Departmental Talks

- 2018 [D.5] **Multimodal Computational Behavior Understanding**  
Carnegie Mellon University (1 hour)  
Pittsburgh, PA, USA, 2018
- 2017 [D.4] **Challenges Facing Computational Face**  
Carnegie Mellon University, Vision and Autonomous Systems Center Seminar (1 hour)  
Pittsburgh, PA, USA, 2017
- 2015 [D.3] **Automated 3D Gaze Estimation and Expression Detection**  
Carnegie Mellon University, People Image Analysis Workshop (30 mins)  
Pittsburgh, PA, USA, 2015
- 2014 [D.2] **Dense 3D Face Alignment in Real-Time**  
Carnegie Mellon University, People Image Analysis Workshop (30 mins)  
Pittsburgh, PA, USA, 2014

2012 [D.1] **Facial Expression Analysis based on 3D Deformable Models**  
Carnegie Mellon University, Vision and Autonomous Systems Center Seminar (1 hour)  
Pittsburgh, PA, USA, 2012

## Publications

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### Theses

- 2012 [T.2] László A. Jeni, **Study on Facial Expression Analysis based on 3D Deformable Model**, PhD thesis, The University of Tokyo, 2012.
- 2004 [T.1] László A. Jeni, **Artificial Intelligence Techniques used in the Game of Go**, Master's thesis, Eötvös Loránd University, 2004.

### Book Chapters

- 2020 [B.2] Jeffrey M. Girard, Jeffrey F. Cohn, László A. Jeni, Michael A. Sayette, Fernando De La Torre, **Spontaneous Facial Expression in Unscripted Social Interactions Can Be Measured Automatically**, In P. Ekman & E. Rosenberg (Eds.), *What the Face Reveals* (3<sup>rd</sup> ed.), pp. 146-162, Oxford University Press, 2020.
- 2019 [B.1] Cohn, Jeffrey F., Itir Onal Ertugrul, Wen-Sheng Chu, Jeffrey M. Girard, László A. Jeni, and Zakia Hammal, **Affective facial computing: Generalizability across domains**, In *Multimodal Behavior Analysis in the Wild*, pp. 407-441. Academic Press, 2019 (<https://www.sciencedirect.com/science/article/pii/B9780128146019000262>)

### Journal articles

- 2023 [J.17] Dasari, Ananyananda, Ambareesh Revanur, Laszlo A. Jeni, and Conrad S. Tucker. **"Video-based Elevated Skin Temperature Detection."** IEEE Transactions on Biomedical Engineering (2023).
- 2022 [J.16] Koichiro Niinuma, Itir Onal Ertugrul, Jeffrey F Cohn and Laszlo A. Jeni, **"Facial expression manipulation for personalized facial action estimation"**, *Frontiers in Signal Processing*. (accepted)
- 2022 [J.15] Ambareesh Revanur, Ananyananda Dasari, Conrad S. Tucker, László A. Jeni, **"Instantaneous Physiological Estimation using Video Transformers"**, *Studies in Computational Intelligence*, Springer (accepted), 2022
- 2021 [J.14] Provenza, N. R., Sheth, S. A., Rijn, E. M. D.-v., Mathura, R. K., Ding, Y., Vogt, G. S., Avendano-Ortega, M., Ramakrishnan, N., Peled, N., Gelin, L. F. F., Xing, D., Jeni, L. A., Ertugrul, I. O., Barrios-Anderson, A., Matteson, E., Wiese, A. D., Xu, J., Viswanathan, A., Bijanki, K., Storch, E. A., Cohn, J. F., Goodman, W. K., & Borton, D. A. (2021). **Long-term ecological assessment of intracranial electrophysiology synchronized to behavioral markers in Obsessive-Compulsive Disorder**. *Nature Medicine*.
- 2021 [J.13] Ananyananda Dasari, Sakthi Kumar Arul Prakash, László A. Jeni, and Conrad S. Tucker. **"Evaluation of biases in remote photoplethysmography methods."** *NPJ digital medicine* 4, no. 1 (2021): 1-13.
- 2021 [J.12] Koichiro Niinuma, Itir Onal Ertugrul, Jeffrey F Cohn, Laszlo A. Jeni. **"Systematic Evaluation of Design Choices for Deep Facial Action Coding Across Pose"**, In *Frontiers in Computer Science*, Frontiers, 2021, doi: 10.3389/fcomp.2021.636094

- 2021 [J.11] X. Xu, H. Chen, F. Moreno-Noguer, L. A. Jeni and F. De la Torre, **"3D Human Pose, Shape and Texture from Low-Resolution Images and Videos,"** in IEEE Transactions on Pattern Analysis and Machine Intelligence, doi: 10.1109/TPAMI.2021.3070002.
- 2020 [J.10] Itir Onal Ertugrul, Jeffrey F. Cohn, László A. Jeni, Zheng Zhang, Lijun Yin, and Qiang Ji. **"Crossing Domains for AU Coding: Perspectives, Approaches, and Measures."** IEEE transactions on biometrics, behavior, and identity science 2, no. 2 (2020): 158-171.
- 2019 [J.9] Itir Onal Ertugrul, Le Yang, László A. Jeni, Jeffrey F Cohn, **D-PAttNet: Dynamic patch-attentive deep network for action unit detection,** In Frontiers in Computer Science, Frontiers, volume 1, 2019.  
(<https://www.frontiersin.org/articles/10.3389/fcomp.2019.00011/full>)
- 2018 [J.8] Itir Onal Ertugrul, László A. Jeni, Hamdi Dibeklioglu, **Modeling and Synthesis of Kinship Patterns of Facial Expressions,** in In Image and Vision Computing, 2018  
(<https://doi.org/10.1016/j.imavis.2018.09.012>)
- 2017 [J.7] Sergely Tulyakov, László A. Jeni, Jeffrey F. Cohn, Nicu Sebe, **Viewpoint-consistent 3D Face Alignment,** in IEEE Transactions on Pattern Analysis and Machine Intelligence, 2017 (<http://doi.org/10.1109/TPAMI.2017.2750687>)
- 2016 [J.6] László A. Jeni, Jeffrey F. Cohn, Takeo Kanade, **Dense 3D Face Alignment from 2D Video for Real-Time Use,** In Image and Vision Computing, 2016  
(<http://dx.doi.org/10.1016/j.imavis.2016.05.009>)
- 2014 [J.5] Jeffrey M. Girard, Jeffrey F. Cohn, László A. Jeni, Michael A. Sayette, Fernando De La Torre, **Spontaneous facial expression in unscripted social interactions can be measured automatically,** In Behavior Research Methods, Springer US, 2014.
- 2012 [J.4] László A. Jeni, András Lőrincz, Tamás Nagy, Zsolt Palotai, Judit Sebők, Zoltán Szabó, Dániel Takács, **3D shape estimation in video sequences provides high precision evaluation of facial expressions,** In Image and Vision Computing, Elsevier, volume 30, 2012.
- 2012 [J.3] László A. Jeni, Hideki Hashimoto, Takashi Kubota, **Robust Facial Expression Recognition Using Near Infrared Cameras,** In Journal of Advanced Computational Intelligence and Intelligent Informatics, Fujipress, volume 16, 2012.
- 2010 [J.2] Hideki Hashimoto, Takeshi Sasaki, László A. Jeni, **Current Status of Intelligent Space,** In Journal of Measurement Science and Instrumentation, volume 01, 2010.
- 2008 [J.1] László A. Jeni, György Flórea, András Lőrincz, **InfoMax Bayesian Learning of the Furuta Pendulum,** In Acta Cybernetica, volume 18, 2008.

## Conferences & workshops

- 2023 [C.60] Gupta, Aarush, Junli Cao, Chaoyang Wang, Ju Hu, Sergey Tulyakov, Jian Ren, and László A. Jeni. **"LightSpeed: Light and Fast Neural Light Fields on Mobile Devices."** Thirty-seventh Conference on Neural Information Processing Systems (2023).
- 2023 [C.59] Youngkyoon Jang, Jiali Zheng, Jifei Song, Helisa Dharmo, Eduardo Perez-Pellitero, Thomas Tanay, Matteo Maggioni, Richard Shaw, Sibi Catley-Chandar, Yiren Zhou, Jiankang Deng, Ruijie Zhu, Jiahao Chang, Ziyang Song, Jiahuan Yu, Tianzhu Zhang, Khanh-Binh Nguyen, Joon-Sung Yang, Andreea Dogaru, Bernhard Egger, Heng Yu, Aarush Gupta, Joel Julin, Laszlo A. Jeni, Hyeseong Kim, Jungbin Cho, Dosik Hwang, Deukhee Lee, Doyeon Kim, Dongseong Seo, Seung Jin Jeon, Young Don Choi, Jun Seok Kang, Ahmet Cagatay Seker, Sang Chul Ahn, Ales Leonardis, and Stefanos Zafeiriou,

- "VSCHH 2023: A Benchmark for the View Synthesis Challenge of Human Heads."** Proceedings of the IEEE/CVF International Conference on Computer Vision. 2023.
- 2023 [C.58] Choudhury, Rohan, Kris M. Kitani, and László A. Jeni. **"TEMPO: Efficient multi-view pose estimation, tracking, and forecasting."** Proceedings of the IEEE/CVF International Conference on Computer Vision. 2023.
- 2023 [C.57] Yu, Heng, Koichiro Niinuma, and László A. Jeni. **"CoNFies: Controllable Neural Face Avatars."** In 2023 IEEE 17th International Conference on Automatic Face and Gesture Recognition (FG), pp. 1-8. IEEE, 2023.
- 2023 [C.56] Bilalpur, Maneesh, Saurabh Hinduja, Laura A. Cariola, Lisa B. Sheeber, Nick Alien, László A. Jeni, Louis-Philippe Morency, and Jeffrey F. Cohn. **"Multimodal Feature Selection for Detecting Mothers' Depression in Dyadic Interactions with their Adolescent Offspring."** In 2023 IEEE 17th International Conference on Automatic Face and Gesture Recognition (FG), pp. 1-8. IEEE, 2023.
- 2023 [C.55] Yu, Heng, Zoltan A. Milacski, and László A. Jeni. **"Unsupervised Style-based Explicit 3D Face Reconstruction from Single Image."** In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, pp. 719-729. 2023.
- 2023 [C.54] Wang, Chaoyang, Lachlan Ewen MacDonald, Laszlo A. Jeni, and Simon Lucey. **"Flow supervision for Deformable NeRF."** In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, pp. 21128-21137. 2023.
- 2023 [C.53] Yu, Heng, Joel Julin, Zoltan A. Milacski, Koichiro Niinuma, and László A. Jeni. **"DyLiN: Making Light Field Networks Dynamic."** In Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition, pp. 12397-12406. 2023.
- 2023 [C.52] Dabhi, Mosam, Chaoyang Wang, Tim Clifford, László Jeni, Ian Fasel, and Simon Lucey. **"MBW: Multi-view Bootstrapping in the Wild."** Advances in Neural Information Processing Systems 35 (2022): 3039-3051.
- 2022 [C.51] Revanur, Ambareesh, Ananyananda Dasari, Conrad S. Tucker, and Laszlo A. Jeni. **"Instantaneous physiological estimation using video transformers."** In Multimodal AI in healthcare: A paradigm shift in health intelligence, pp. 307-319. Cham: Springer International Publishing, 2022.
- 2022 [C.50] Revanur, Ambareesh, and László A. Jeni. **"Camera-based Non-Contact Physiology Sensing."** In 2022 10th International Conference on Affective Computing and Intelligent Interaction Workshops and Demos (ACIIW), pp. 1-2. IEEE, 2022.
- 2022 [C.49] Ali Darzi, Nicole R. Provenza, László A. Jeni, David A. Borton, Sameer A. Sheth, Wayne K. Goodman, and Jeffrey F. Cohn. **"Facial Action Units and Head Dynamics in Longitudinal Interviews Reveal OCD and Depression severity and DBS Energy."** In 2021 16th IEEE International Conference on Automatic Face and Gesture Recognition (FG 2021), pp. 1-6. IEEE, 2021.
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### Additional Information

Memberships	IEEE (2010 -), Siggraph (2017-)
Languages	Hungarian (native), English (fluent), Japanese (intermediate), German (basic)

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