

# Zijun Wei

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## RESEARCH INTERESTS

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Computer vision, machine learning, modeling and learning visual subjective attributes and human preference.

## EDUCATION

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<i>Stony Brook University, Stony Brook, NY</i> Ph.D. Candidate, Department of Computer Science Advisors: Dimitris Samaras and Minh Hoai Nguyen	2014 - present
<i>Carnegie Mellon University, Pittsburgh, PA</i> M.S. Robotics Institute Advisor: Mel Siegel	2012 - 2013
<i>Nanjing University of Sci.&amp;Tech, Nanjing, China</i> B.E. Department of Computer Science	2007 - 2011

## WORK EXPERIENCE

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<i>Stony Brook University, Stony Brook, NY</i> Research Assistant Advisors: Dimitris Samaras and Minh Hoai Nguyen	2015 - present
<i>Adobe Research, San Jose, CA</i> Part-time Research Intern Mentors: Jianming Zhang, Zhe Lin and Joon-Young Lee	Sep 2018 - Mar 2019
<i>Adobe Research, San Jose, CA</i> Full-time Research Intern Mentors: Jianming Zhang, Zhe Lin and Joon-Young Lee	June 2018 - Sep 2018
<i>Adobe Research, San Jose, CA</i> Part-Time Research Intern Mentors: Jianming Zhang, Zhe Lin, Xiaohui Shen and Radomír Měch	May 2017 - Nov 2017
<i>Adobe Research, San Jose, CA</i> Full-Time Research Intern Mentors: Jianming Zhang, Zhe Lin, Xiaohui Shen and Radomír Měch	Feb 2017 - May 2017
<i>Carnegie Mellon University, Pittsburgh, PA</i> Research Assistant, Robotics Institute Advisor: Yaser Sheikh	2013 - 2014
<i>ABB R&amp;D China, Shanghai, China</i> R&D Engineer	2012

## AWARDS AND HONORS

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Catacosinos Fellowship for Excellence in Computer Science (2018 - 2019)  
Renaissance Technologies Fellowship (2014 - 2017)  
Undergraduate Scholarship (2007 - 2011)

## PUBLICATIONS

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### Journal Publications

1. **Zijun Wei\***, Boyu Wang\*, Minh Hoai, Jianming Zhang, Zhe Lin, Xiaohui Shen, Radomír Měch, and Dimitris Samaras. Sequence-to-Segments Networks for Detecting Segments in Videos. *Accepted to IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)*

### Refereed Conference Publications

1. Conor Kelton, **Zijun Wei**, Seoyoung Ahn, Aruna Balasubramanian, Samir Das, Dimitris Samaras, and Greg Zelinsky. Reading Detection in Real-Time. *Symposium on Eye Tracking and Applications (ETRA)*. 2019
2. Gregory Zelinsky, Zhibo Yang, Lihan Huang, Yupei Chen, Seoyoung Ahn, **Zijun Wei**, Hossein Adeli, Dimitris Samaras, and Minh Hoai. Benchmarking Gaze Prediction for Categorical Visual Search. *Conference on Computer Vision and Pattern Recognition Workshop (CVPR-W)*. 2019
3. Shuai Ma\*, **Zijun Wei\***, Feng Tian, Xiangmin Fan, Jianming Zhang, Xiaohui Shen, Zhe Lin, Jin Huang, Radomír Měch, Dimitris Samaras, and Hongan Wang. SmartEye: Assisting Instant Photo Taking via Integrating User Preference with Deep View Proposal Network. *ACM Conference on Human Factors in Computing Systems (CHI)*. 2019. **Best Paper Honorable Mention**
4. **Zijun Wei**, Boyu Wang, Minh Hoai, Jianming Zhang, Zhe Lin, Xiaohui Shen, Radomír Měch, and Dimitris Samaras. Sequence-to-segment networks for segment detection. *Advances in Neural Information Processing Systems (NeurIPS)*. 2018.
5. **Zijun Wei**, Jianming Zhang, Xiaohui Shen, Zhe Lin, Radomír Měch, Minh Hoai, and Dimitris Samaras. Good View Hunting: Learning Photo Composition from Dense View Pairs. *Conference on Computer Vision and Pattern Recognition (CVPR)*. 2018.
6. **Zijun Wei\***, Hossein Adeli\*, Minh Hoai, Greg Zelinsky, and Dimitris Samaras. Learned Region Sparsity and Diversity also Predicts Visual Attention. *Advances in Neural Information Processing Systems (NeurIPS)*. 2016.
7. **Zijun Wei** and Minh Hoai. Region Ranking SVM for Image Classification. *Conference on Computer Vision and Pattern Recognition (CVPR)*. 2016.
8. Yair Movshovitz-Attias, Yaser Sheikh, Vishnu Naresh Boddeti, and **Zijun Wei**. 3D Pose-by-Detection of Vehicles via Discriminatively Reduced Ensembles of Correlation Filters. *British Machine Vision Conference (BMVC)*. 2014.

### Conference with Refereed Abstracts

1. **Zijun Wei**, Hossein Adeli, Minh Hoai, Gregory Zelinsky, and Dimitris Samaras. Predicting Scanpath Agreement during Scene Viewing using Deep Neural Networks. *Visual Science Society (VSS)*. 2017.

## PATENTS

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1. Zhang, Jianming, **Zijun Wei**, Zhe Lin, S. H. E. N. Xiaohui, and Radomir Mech. "Image crop suggestion and evaluation using deep-learning." U.S. Patent Application 15/730,564.
2. Zhang, Jianming, **Zijun Wei**, Zhe Lin, S. H. E. N. Xiaohui, and Radomir Mech. "Guided image composition on mobile devices ." U.S. Patent Application 15/730,614.
3. Zhang, Jianming, **Zijun Wei**, Zhe Lin, S. H. E. N. Xiaohui, and Radomir Mech. "Method for Using Deep Learning for Facilitating Real-Time View Switching and Video Editing on Computing Devices." U.S. Patent Application 15/730,632.

## PROFESSIONAL SERVICE

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- Reviewer: NIPS 2016, CVPR2018, ACCV2018, NeurIPS2018, BMCV2019, ICCV2019, NeurIPS2019, CVIU.
- Teaching Assistant: CSE 525 Introduction to Robotics(2015,2016), CSE214 Computer Science II (2015)

## STUDENTS ADVISED

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- **Shree Nath Dutt Sharma** (Master):  
Improving object proposal using human fixations 2018
- **Nicholas Cimaszewski** (Simons Summer Research Program):  
Reconstructing *Home of the Future* with Kinects. 2016

## REFERENCES

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| • <b>Dimitris Samaras</b><br>Associate Professor<br>Stony Brook University<br>samaras@cs.stonybrook.edu  | • <b>Jianming Zhang</b><br>Senior Research Scientist<br>Adobe Research<br>jianmzha@adobe.com |
| • <b>Minh Hoai Nguyen</b><br>Assistant Professor<br>Stony Brook University<br>minhhoai@cs.stonybrook.edu | • <b>Zhe Lin</b><br>Principle Research Scientist<br>Adobe Research<br>zlin@adobe.com         |