## Dr. Silvia-Laura Pintea

**Computer Vision Researcher**
Roles: Researcher, Engineer, Supervisor, Lecturer, Invited speaker.
Email: Silvia[dot]Laura[dot]Pintea[at]gmail[dot]com
Webpage: http://silvialaurapintea.github.io

My work in Computer Vision has been focused on: motion analysis extended to medical applications in collaboration with Leiden University Medical Center, and regression problems, also combined with the use of Deep Learning. I am now looking into applying Computer Vision techniques for seismic data analysis.

## Education

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| **PhD** | **Computer Vision** |
| Institution | University van Amsterdam \| Amsterdam, NL |
| Period | 2011 – 2016 |
| Thesis Title | Continuous Learning in Computer Vision |
| Focus | Motion prediction, object localization, video representation learning |
| **MSc** | **Artificial Intelligence** |
| Institution | University van Amsterdam \| Amsterdam, NL |
| Period /Avg. Grade | 2009 – 2011 \| 8.31 (out of 10) |
| Focus | Machine Learning, Computer Vision, Neural Networks, Game Theory. |
| **BSc** | **Computer Science** |
| Institution | University of Bucharest, Faculty of Mathematics and Computer Science, Bucharest, RO |
| Period /Avg. grade | 2005 – 2008 \| 9.40 (out of 10) |
| Focus | Algorithms and data structures, Object oriented programming, Formal methods. |

## Work Experience

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| **PostDoc** | **Vision Lab, Delft University of Technology, Delft, NL** |
| Period | Sept 2018 — Present |
| Job Description | Working on the "Delphi" project aiming at developing geo-imaging technology for the geo-energy industry. Project link: http://www.delphi-consortium.com |
| **PostDoc** | **Vision Lab, Delft University of Technology, Delft, NL** |
| Period | July 2016 — July 2018 |
| Job Description | Working on the "Technology in Motion" project with the Leiden University Medical Center towards diagnosing and treatment of motor diseases. Project link: https://tim.lumc.nl |
| **R&D Engineer** | **Layar/Blippar, Amsterdam, NL** |
| Period | January — June 2016 |
| Job Description | Adding state-of-the-art Deep Learning methods for large-scale image retrieval, feature matching and binarization algorithms. |

## Key publications

**"Divide and Count: Generic Object Counting by Image Divisions"**, T Stahl, SL Pintea, JC van Gemert, Transactions on Image Processing, 2018.

**"Asymmetric kernels in Gaussian Process for learning target variance."**, SL Pintea, JC van Gemert, AWM Smeulders, Pattern Recognition Letters, 2018

**"Video Acceleration Magnification"**. "textscConference, Y Zhang, SL Pintea, JC van Gemert, Conference on Computer Vision and Pattern Recognition, 2017 (https://acceleration-magnification.github.io)

**"Déjà Vu: Motion Prediction in Static Images."**, SL Pintea, JC van Gemert, AWM Smeulders, European Conference on Computer Vision, 2014, (http://github.com/SilviaLauraPintea/DejaVu)

**Complete list of publications:** Google Scholar

## Additional Information

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| Reviewer | NeurIPS'17, NeruIPS'18, ICPR'18, ICML'19, ICCV'19, BMVC'19, CVPR'20, TIP, IJCV |
| Conference participation | International participation: ECCV'14, workshop ECCV'16, ICIP'16, ICIP'18. Local participation: ICT.Open'12, ICT.Open'16, NCCV'18. NCCV'19. |
| Invited speaker | NVPHBV-17, Nuctech meeting Delft, Delft-Leiden Deep Learning Seminars'19. |
| Invited lecturer | Deep Learning MSc course TUDelft |
| (Co-)lecturer | BSc Image Processing course, MSc Computer Vision course at TUDelft |
| Teaching Assistant | BSc Short Course on Pattern Recognition, MSc Computer Vision course. |
| MSc supervisor | Tobias Stahl, Yichao Zhang, Chengqiu Zhang, Xilin Li, Yue Liu, Omar Hommos, Xiaoming Wen, Jian Zheng, Ziyu Bao. |
| PhD (co-)supervisor | Vedran Vukotic, Abolfazi Nadi, Yancong Lin, Xin Liu. |
| Award | Best paper award for the Workshop on Hands, ECCV'18. |
| Languages & Tools | Python, PyTorch, TensorFlow, C/C++, Caffe, Torch, PHP, Java, OpenCV, Dlib, Shogun, LibSVM, VlFeat, Yael, Cuda-Convnet, Matlab. |