



### Computer Vision Researcher

ROLES: Researcher, Engineer, Supervisor, Lecturer, Invited speaker.

EMAIL: Silvia[dot]Laura[dot]Pintea[at]gmail[dot]com

WEBPAGE: <http://silviaaurapintea.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 using Computer Vision knowledge to make Deep Networks more training-time efficient and thus more environmental friendly.

## EDUCATION

---

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

---

PostDoc	Vision Lab, Delft University of Technology, Delft, NL
PERIOD	JULY 2018 — JULY 2020
JOB DESCRIPTION	Working on the Geophysical imaging with the aim of recognizing different rock types from seismic imaging.
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: <a href="https://tim.lumc.nl">https://tim.lumc.nl</a>
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

---

“Deep Hough-Transform Line Priors”, Y Lin, SL Pintea, JC van Gemert, European Conference on Computer Vision, 2020.

“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”. ”CONFERENCE, 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

---

REVIEWER	NeurIPS, ICPR, ICML, ICCV, BMVC, CVPR, ECCV, TIP, IJCV
CONFERENCE PARTICIPATION	International participation: ECCV'14, workshop ECCV'16, ICIP'16, ICIP'18, ECCV'20. 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, VIFeat, Yael, Cuda-Convnet, Matlab.
REFERENCES	Dr. Arnold Smeulders (A[dot]W[dot]M[dot]Smeulders[at]uva[dot]nl) Dr. Marco Loog (M[dot]Loog[at]tudelft[dot]nl) Dr. Jan van Gemert (J[dot]C[dot]vanGemert[at]tudelft[dot]nl)