EXPERIENCE

Facebook AI Research (FAIR). Site Lead FAIR New York, supporting a team of 40+ researchers, March 2018–now.

Facebook AI Research (FAIR). Research Scientist. New York, March 2015—now.

Delft University of Technology. Assistant Professor (with tenure). Delft, The Netherlands, January 2015–February 2018.

Delft University of Technology. Assistant Professor (tenure-track). Delft, The Netherlands, April 2013–December 2014.

Netherlands Institute for Advanced Study. Fellow. Wassenaar, The Netherlands, February 2013–April 2013.

Delft University of Technology. Post-doc in (EU FP7) SSPNet project, working with Dr. Emile Hendriks, Dr. Bob Duin, Dr. Marco Loog, and Dr. David Tax. Delft, The Netherlands, August 2009–March 2013.

University of California, San Diego. Post-doc with Prof. Lawrence Saul. San Diego CA, December 2009–November 2010.

Tilburg University. Ph.D. student under supervision of Prof. Eric Postma and Prof. Jaap van den Herik, Tilburg, The Netherlands, October 2008–August 2009. Ph.D. received at June 23^{rd} 2009 (cum laude).

Dutch State Service for Cultural Heritage (RCE). Ph.D. student working with Dr. Guus Lange, Amersfoort, The Netherlands, August 2005–August 2009.

Maastricht University. Ph.D. student under supervision of Prof. Eric Postma and Prof. Jaap van den Herik, Maastricht, The Netherlands, August 2005–October 2008.

RESEARCH VISITS

University of Geneva. Visiting postdoctoral researcher working with Dr. Marc Mehu, Geneva, Switzerland, January 2012.

Imperial College London. Visiting postdoctoral researcher working with Prof. Maja Pantic, London, UK, July 2011.

University of Toronto. Visiting Ph.D. student working with Prof. Geoffrey Hinton, Toronto, ON, Canada, January 2008–June 2008.

EDUCATION

Tilburg University. Doctoral degree ($cum\ laude$) for Ph.D. thesis "Feature Extraction from Visual Data". Thesis defense on June 23^{rd} 2009.

Maastricht University. Doctorandus (= Dutch M.Sc.) in Knowledge Engineering and Computer Science, Maastricht, The Netherlands, September 2001–August 2005.

RESEARCH INTERESTS

My research interests are in machine learning and computer vision. More specifically, I am interested in dimensionality reduction, embedding, metric learning, generative models, deep learning, privacy-preserving machine learning, time series modeling, structured prediction, regularization, art analysis, face recognition, texture analysis, shape matching, tracking, and writer identification.

SELECTED

My h-index is 37 and my total number of citations is 25,543 (Google Scholar; retrieved **PUBLICATIONS** December, 2019). The following publications are representative for my work:

- D. Mahajan, R.B. Girshick, V. Ramanathan, K. He, M. Paluri, Y. Li, A. Bharambe, and L.J.P. van der Maaten. Exploring the Limits of Weakly Supervised Pretraining. In European Conference on Computer Vision (ECCV), pages 185–201, 2018. [Acceptance rate: 31.8%; 181 citations].
- G. Huang, Z. Liu, K.Q. Weinberger, and L.J.P. van der Maaten. Densely Connected Convolutional Networks. In Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017. [Best paper award; Oral acceptance rate: 2.65%; 6.605 citations.
- L.J.P. van der Maaten. Accelerating t-SNE using Tree-Based Algorithms. Journal of Machine Learning Research 15(Oct):3221-3245, 2014. [Impact factor: 3.42; 1,046 citations
- L.J.P. van der Maaten, M. Chen, S. Tyree, and K.Q. Weinberger. Learning with Marginalized Corrupted Features. In Proceedings of the International Conference on Machine Learning (ICML), JMLR W&CP 28:410-418, 2013. [Acceptance rate: 24%; 134 citations
- L.J.P. van der Maaten and G.E. Hinton. Visualizing High-Dimensional Data Using t-SNE. Journal of Machine Learning Research 9(Nov):2579–2605, 2008. [Impact factor: 2.949; 11,093 citations]

RESEARCH **GRANTS**

Learning the Fundamental Symmetries in Video Data.

Funding agency: Netherlands Scientific Organisation (NWO)

PI: Prof.dr. M. Welling (University of Amsterdam)

Co-PI: Dr. L.J.P. van der Maaten (TU Delft)

Amount: 217k€

Start date / end date: January 2015 / January 2019

Duration: 48 months

HDCLUSTER

Development of novel clustering methods for gene expression, proteomic and imaging readouts by concurrently mining the Allen Brain Atlas.

Funding agency: FET Flagship (Human Brain Project)

PIs: Prof.dr. B. Lelieveldt (LUMC), Prof.dr. M.J.T. Reinders (TU Delft

/ LUMC), Dr. Laurens van der Maaten (TU Delft / LUMC), Prof. A. van den Maagdenberg (LUMC), Dr. W. van Roon (LUMC)

Amount: 234k€

Start date / end date: September 2014 / September 2016.

Duration: 24 months

Technology in Motion.

Funding agency: Netherlands Scientific Organisation (NWO)

Project coordinator: Prof.dr. B. van Hilten (LUMC)

Partners: Leiden University Medical Center, TU Delft (EWI and TBM), Free University Amsterdam.

PI at TU Delft-EWI: Dr. L.J.P. van der Maaten

Amount for TU Delft-EWI: 210k€

Start date / end date: January 2014 / January 2018

Duration: 48 months

Learning from Corruption.

Funding agency: Netherlands Scientific Organisation (NWO)

PI: Dr. L.J.P. van der Maaten

Amount: 207k€

Start date / end date: July 2014 / July 2018

Duration: 48 months

Integration of Technological Solutions for Imaging, Detection, and Digitisation of Hidden Elements in Artworks (INSIDDE).

Funding agency: European Commission (FP7-ICT 2011.8.2; STReP)

Project coordinator: Dr. S. Garcia (Treelogic)

PI at TU Delft: Dr. L.J.P. van der Maaten

Partners: Treelogic (ES), Universidad de Oviedo (ES), Fundacion ITMA (ES),

TU Delft (NL), 3DDynamics (BE), Consiglio Nazionale delle Ricerche (IT),

Regional Museum of History - Stara Zagora (BG), and Doerner Institute (DE).

Amount for TU Delft: 401k€

Start date / end date: January 2013 / January 2016

Duration: 36 months

Smart Assisted Living involving Informal careGivers (SALIG++).

Funding agency: European Commission and Netherlands Organisation for Health Research and Development (ZonMW); Ambient Assisted Living Programme

Project coordinator: Dr. G. Juell-Skielse (Stockholm University)

PI at TU Delft: Dr. L.J.P. van der Maaten

Partners: Stockholm University (SE), Almende (NL), HI Iberia (ES),

TU Delft (NL), FeSalud (ES), Stockholm LänsLandsting (SE), PIAP (PL),

Actimage (LU), and Divitel (NL).

Amount for TU Delft: 280k€

Start date / end date: June 2013 / June 2016

Duration: 36 months

Visualizing High-Dimensional Data using Dimensionality Reduction.

Funding agency: Netherlands Scientific Organisation (NWO)

PI: Dr. L.J.P. van der Maaten

Amount: 28k€

Start date / end date: December 2010 / December 2011

Duration: 12 months

Research team at UC San Diego: Dr. L.J.P. van der Maaten and Prof. L.K. Saul

AWARDS

CVPR Best Paper Award. Best paper award at the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) for paper: G. Huang, Z. Liu, K.Q. Weinberger, and L.J.P. van der Maaten. Densely Connected Convolutional Networks, 2017.

SNN Machine Learning Award. Awarded once per year by the Netherlands Society for Neural Networks (SNN) to a researcher or research group who has achieved an important result in machine learning. I received the award for my work on new machine-learning techniques for data visualization. Amount: 5k€.

Merck Molecular Activity Visualization Challenge Winner. Best visualization of molecular activity data of Merck published on Kaggle.com. Amount: 2k\$.

NIAS-Lorentz Fellowship. Awarded by the Netherlands Institute for Advanced Study and the Lorentz Center for my research on "Texture Analysis for the Arts". Awarded in March 2012. Amount: 9k€.

AAAI-08 Most Innovative Video Award. Awarded for the video entitled "Digital Analysis of Van Gogh Paintings" at the conference of the Association for the Advancement of Artificial Intelligence, July 2008, Chicago, IL, USA. Joint work with Eric Postma.

MUSCLE CIS Coin Competition 2007 Winner. Best classification performance in a benchmark on automatic classification of modern coins based on coin photographs, Vienna, Austria, August 2007. Joint work with Paul Boon.

Travel awards. I received travel awards for NIPS 2010 (sponsored by Google; \$800), AI-STATS 2009 (sponsored by Nokia; \$550), and CAA 2009 (sponsored by Computer Applications for Archaeology; \$400).

SOFTWARE

I am one of the developers of Classy Vision and of CrypTen. I am I am one of the developers of the visdom tool for scientific visualization (over 6,900 stars on Github). I maintain the Matlab Toolbox for Dimensionality Reduction. Since its introduction in 2006, the toolbox has been downloaded over 35,000 times. I also maintain a website on t-Distributed Stochastic Neighbor Embedding (t-SNE), which is a new technique for the visualization of high-dimensional data that I developed together with Prof. Geoffrey Hinton. My website on t-SNE contains implementations of the technique in various programming language. My personal homepage also features Matlab implementations of, among others, state-of-the-art system for writer identification, fields of experts, and matrix relational embedding. I also contributed to the open-source visualization software Divvy and to several (Py)Torch repositories.

TEACHING AND SUPERVISION

I have received the Dutch University Qualification Teaching (BKO) in October 2012.

In the past, I have supervised two post-doctoral researchers:

- Hamdi Dibeklioglu. Machine Learning and Computer Vision for Painting Analysis. July 2013–January 2015.
- Julian Kooij. Automatic Analysis of Tremors of Parkinson's Patients. Started October 2014–January 2015.

In the past, I have supervised the following Ph.D. students:

- Gorkem Saygili. Depth Estimation by Combining Active and Passive Stereo Techniques. Started October 2010 (defense June 2015). Co-supervised with Dr. Emile Hendriks.
- Wouter Kouw. Machine Learning and Computer Vision for Painting Analysis. Started September 2013 (expected completion early 2018). Co-supervised with Dr. Marco Loog.
- Wenjie Pei. Machine Learning and Computer Vision for Assistance of Elderly

- *People.* Started October 2013 (expected completion early 2018). Co-supervised with Dr. David Tax.
- Taygun Kekec. Learning by Marginalizing Corrupted Features. Started July 2014 (expected completion July 2018). Co-supervised with Dr. David Tax.
- Lu Zhang. Tracking for Automatic Analysis of Human Eating Behavior. Defense date: January 30, 2015.

I have also supervised numerous interns at Facebook AI Research.

In the past, I have supervised the following M.Sc. students:

- Kevin van Hecke. Persistent Self-Supervised Learning Principle: Study and Demonstration on Flying Robots. November 2013–September 2014. Co-supervised with Dr. Guido de Croon (TU Delft).
- Harold Selman. Anomaly Detection for Internet Banking using Supervised Learning on High-Dimensional Data.. March 2014–January 2015. Research performed at Rabobank. Co-supervised with dr. Frank van der Meulen (TU Delft) and Werner Ipenburg (Rabobank).
- Hans Gaiser. A Stochastic Approach for Selective Search Algorithms. March 2014–January 2015.
- Madalin Dumitru-Guzu. Joint Probabilistic Pedestrian Head and Body Orientation Estimation. September 2013–July 2014. Research performed at Daimler R&D, Ulm, Germany. Co-supervised with Prof. Dariu Gavrila (University of Amsterdam / Daimler R&D).
- Machiel Visser. Fusing Modalities for Automatic Video Tagging. April 2012–March 2013. Research performed at PrimeVision, Delft, The Netherlands.
- Frank Teunisse. Partial Shape Matching for Detecting Conveyability of Suitcases. January 2012–October 2012. Research performed at Scarabee, Rotterdam, The Netherlands.

I gave lectures at the following Ph.D.-level summer schools:

- Advanced Pattern Recognition (ASCI), Delft, The Netherlands, 2011, 2012, 2013
- Computer Vision by Learning (ASCI), Amsterdam, The Netherlands, 2014, 2016, 2018
- Computational Intelligence (SIKS), Utrecht, The Netherlands, 2011
- Summer School on Social Signal Processing, Mullsjö, Sweden, 2013
- Spring School on Social Interaction Computing, Almen, The Netherlands, 2010
- Datamining Summer School, Maastricht, The Netherlands, 2008

I have been a (guest) lecturer of the following M.Sc./B.Sc. courses:

- Machine Learning (Cornell Tech; M.Sc.), 2015, 2016, 2017
- Computer Vision (Delft University of Technology; M.Sc.) 2013, 2014
- Machine Learning (Delft University of Technology; M.Sc.) 2013, 2014
- Datamining (Delft University of Technology; B.Sc.) 2014
- Imaging Project (Delft University of Technology; B.Sc.) 2012
- Bachelor Seminar (Delft University of Technology; B.Sc.) 2011, 2012

I have been a teaching assistant for the following M.Sc./B.Sc. courses:

- Pattern Recognition (Delft University of Technology; M.Sc.)
- Foundations of Knowledge Representation and Reasoning (Maastricht University; M.Sc.)
- Databases (Maastricht University; B.Sc.)
- Modeling Nature (Maastricht University; B.Sc.)
- Introduction to Computer Science (Maastricht University; B.Sc.)
- Software Architectures and Software Engineering (Maastricht University; B.Sc.)
- Abstract Datatypes and Algorithms (Maastricht University; B.Sc.)

I was member of the thesis assessment committee of the following Ph.D. students:

- Stephen Tyree, Some Approaches to Parallel and Distributed Machine Learning, Washington University in St. Louis, November 2014.
- Philemon Brakel, The Estimation and Application of Unnormalized Statistical Models, Ghent University, July 2014.

I was member of the thesis assessment committee of the following M.Sc. students:

- Rinze Bruining. Investigating Crowdsourcing as a Method to Obtain Robotic Datasets, Delft University of Technology, 2014.
- Menno Witteveen. Identification and Elucidation of Expression Quantitative Trait Loci (eQTL) and their Regulating Mechanisms using Decodive Deep Learning, Delft University of Technology, 2014.
- Christian Vermorken. Enhancing BCI Based Navigation by Adding Intention Detection and a Virtual Assistant, Delft University of Technology, 2014.
- Thies Gehrmann. Conditional random fields for protein function prediction, Leiden University, 2012.
- Jesse Krijthe. Improving Cross-Validation Classifier Selection Accuracy through Meta-Learning, Delft University of Technology, 2012.
- Edwin Jakobs. Tracking facial micro-features using an ensemble of particle filters, Delft University of Technology, 2011.
- Bob de Graaf. Automatic hand gesture recognition using manifold learning, Maastricht University, 2008.
- Peter Mertens. Facial emotion classification with Nim and NimBle, Maastricht University, 2008.
- Marc de Mulder. Automatic thread count method, Maastricht University, 2008.
- Alain de Klerk. Non-linear dimensionality reduction of the document space, Maastricht University, 2008.

ACTIVITIES

Together with Anton Bakhtin, I taught a one-week class on Computer Vision in 2018 at the African Master for Machine Intelligence in Kigali, Rwanda.

Together with Vignesh Ramanathan, Dhruv Mahajan, Alex Berg, Ishan Misra, and Rahul Sukthankar, I co-organized the ICCV 2019 Workshop on Extreme Vision Modeling.

Together with Dr. Marco Loog (Delft University of Technology), I organized the Belgian-Dutch Machine Learning Conference (Benelearn) 2015.

In 2014, I served as a young expert for the "National Think Tank" (Nationale Denktank) on Big Data.

Together with Dr. Cees Snoek (University of Amsterdam), I have organized the inaugural Netherlands Conference on Computer Vision (NCCV) 2014.

I am vice-chair of the Data Visualization and Data Analysis Task Force of the IEEE CIS Technical Committee on Data Mining.

With Prof. Robert Erdmann, I have organized a NIAS Workshop on "New Technologies for Art Conservation and History" (2013).

I have co-organized the Advances in Neural Information Processing Systems (NIPS) 2010 Workshop on "Challenges of Data Visualization" (with Prof. Barbara Hammer, Prof. Fei Sha, and Prof. Alexander Smola).

I have co-organized the EuroVis 2013 workshop on "Visual Analysis using Multidimensional Projections" (with Dr. Michaël Aupetit). I am have also been guest editor for a special issue of a special issue on the same topic in Neurocomputing 150(B):543–644, 2015.

SERVICE

I was an area chair for Neural Information Processing Systems (NeurIPS) 2015 and 2018; International Conference on Machine Learning (ICML) 2016, 2017, 2018, and 2019; International Conference on Learning Representations (ICLR) 2017 and 2018; American Association for Artificial Intelligence (AAAI) 2017; for the IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2018; and for the European Conference on Computer Vision (ECCV) 2016.

Since 2016, I am an associate editor for IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI). In 2014, I was associate editor of IEEE Transactions on Neural Networks and Learning Systems (TNNLS).

I have reviewed research proposals of the Swiss National Science Foundation (SNSF) and the Belgian Agency for Innovation by Science and Technology (IWT).

From 2012 to 2014, I was a book reviewer for Zentralblatt MATH.

I have reviewed papers for over 35 different journals. Five prominent journals for which I served as a reviewer are:

- Journal of Machine Learning Research
- Machine Learning
- Proceedings of the National Academy of Science

- Science
- Neural Computation

I have been a reviewer for over 27 different conferences. Five prominent conferences for which I served as a reviewer are:

- Advances in Neural Information Processing Systems (NIPS) 2010, 2012, 2013, 2014, 2015, 2016, 2017
- International Conference on Machine Learning (ICML) 2012, 2013, 2014, 2015, 2016, 2017
- Artificial Intelligence and Statistics (AI-STATS) 2010, 2011, 2012, 2013, 2014, 2015, 2016
- ACM SIGKDD Conf. on Knowledge Discovery and Data Mining (KDD) 2011,
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2015, 2016, 2017

JOURNAL

- G. Huang, Z. Liu, G. Pleis, L.J.P. van der Maaten, and K.Q. Weinberger. Convolutional PUBLICATIONS Networks with Dense Connectivity. In IEEE Transactions on Pattern Analysis and Machine Intelligence, 2019. [Impact factor: 17.730]
 - K. van Hecke, G. de Croon, L.J.P. van der Maaten, D. Hennes, and D. Izzo. Persistent Self-Supervised Learning Principle: From Stereo to Monocular Vision for Obstacle Avoidance. In International Journal of Micro Air Vehicles 10(2):186–206, 2018. [Impact factor: 1.049]
 - W. Pei, H. Dibeklioglu, D.M.J. Tax, and L.J.P. van der Maaten. Multivariate Time-Series Classification Using the Hidden-Unit Logistic Model. IEEE Transactions on Neural Networks and Learning Systems, 2017. [Impact factor: 4.370]
 - N. Pezzotti, B.P.F. Lelieveldt, L.J.P. van der Maaten, T. Höllt, E. Eisemann, A. Vilanova. Approximated and User Steerable tSNE for Progressive Visual Analytics. IEEE Transactions on Visualization and Computer Graphics 23(7), 2017. [Impact factor: 1.4; 96 citations
 - W.M. Kouw, J.H. Krijthe, M. Loog, and L.J.P. van der Maaten. Feature-Level Domain Adaptation. Journal of Machine Learning Research 17(171):1–32, 2016. [Impact factor: 3.42
 - Y. Cheng, M.T. Wong, L.J.P. van der Maaten, and E.W. Newell. Categorical Analysis of Human T Cell Heterogeneity with One-SENSE. Journal of Immunology 196(2):924-932, 2016. [Impact factor: 4.922; 48 citations]
 - L.J.P. van der Maaten and R.G. Erdmann. Automatic Thread-Level Canvas Analysis. IEEE Signal Processing Magazine 32(4):38-45, 2015. [Impact factor: 5.852; 15 citations]
 - M. van Sebille, L.J.P. van der Maaten, L. Xie, K. Jarolimek, R. Santbergen, R.A.C.M.M. van Swaaij, K. Leifer, and M. Zemana. Nanocrystal Size Distribution Analysis from Transmission Electron Microscopy Images. Nanoscale 7(48):20593-20606, 2015. [Impact factor: 7.394]
 - B.M. Hoonhout, M. Radermacher, F. Baart, and L.J.P. van der Maaten. An Automated

- Method for Semantic Classification of Regions in Coastal Images. *Coastal Engineering* 105:1-12, 2015. [Impact factor: 2.428; 24 citations]
- G. Saygili, L.J.P. van der Maaten, and E.A. Hendriks. Adaptive Stereo Similarity Fusion using Confidence Measures. *Computer Vision and Image Understanding* 135:95-108, 2015. [Impact factor: 1.54; 17 citations]
- C.C. Laczny, T. Sternal, V. Plugaru, P. Gawron, A. Atashpendar, H.H. Margossian, S. Coronado, L. van der Maaten, N. Vlassis, and P. Wilmes. VizBin An Application for Reference-Independent Visualization and Human-Augmented Binning of Metagenomic Data. *Microbiome* 3(1), 2015. [121 citations]
- A. Mahfouz, M. van de Giessen, L.J.P. van der Maaten, S. Huisman, M.J.T. Reinders, M.J. Hawrylycz, and B.P.F. Lelieveldt. Visualizing the spatial gene expression organization in the brain through non-linear similarity embeddings. *Methods* 73:79–89, 2015. [Impact factor: 4.197; 39 citations]
- L.J.P. van der Maaten. Accelerating t-SNE using Tree-Based Algorithms. *Journal of Machine Learning Research* 15(Oct):3221–3245, 2014. [Impact factor: 3.42; 1,046 citations]
- L. Zhang and L.J.P. van der Maaten. Preserving Structure in Model-Free Tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence* 36(4):756-769, 2014. [Impact factor: 4.795; 118 citations]
- W. Abdelmoula, K. Skraskova, B. Balluff, R. Carreira, E. Tolner, B.P.F. Lelieveldt, L.J.P. van der Maaten, H. Morreau, A. van den Maagdenberg, R. Heeren, L. McDonnell, and J. Dijkstra. Automatic Generic Registration of Mass Spectrometry Imaging Data to Histology using Nonlinear Stochastic Embedding. In *Analytical Chemistry* 86(18):9204–9211, 2014. [Impact factor: 5.825; 33 citations]
- C.R. Johnson, Jr., P. Messier, W.A. Sethares, A.G. Klein, C. Brown, A. Hoang Do, P. Klausmeyer, P. Abry, S. Jaffard, H. Wendt, S. Roux, N. Pustelnik, N. van Noord, L.J.P. van der Maaten, E.O. Postma, J. Coddington, L.A. Daffner, H. Murata, H. Wilhelm, S. Wood, and M. Messier. Pursuing Automated Classification of Historic Photographic Papers from Raking Light Images. In *Journal of the American Institute for Conservation* 53(3):159–170, 2014. [34 citations]
- M. Mehu and L.J.P. van der Maaten. Multimodal Integration of Audio-Visual Cues in the Communication of Agreement and Disagreement. In *Journal of Nonverbal Behavior* 38(4):569–597, 2014. [Impact factor: 1.344; 19 citations]
- J.M. Lewis, V.R. de Sa, and L.J.P. van der Maaten. Divvy: Fast and Intuitive Exploratory Data Analysis. *Journal of Machine Learning Research* 14(Oct):3159–5163, 2013. [Impact factor: 3.420]
- M. Grimes, W.J. Lee, L.J.P. van der Maaten, and P. Shannon. Wrangling Phosphoproteomic Data to Elucidate Cancer Signaling Pathways. *PLoS One* 8(1):e52884, 2013. [Impact factor: 4.092; 15 citations]
- L.J.P. van der Maaten and G.E. Hinton. Visualizing Non-Metric Similarities in Multiple Maps. *Machine Learning* 87(1):33-35, 2012. [Impact factor: 1.956; 130 citations]
- L.J.P. van der Maaten and E.A. Hendriks. Action Unit Classification using Active

- Appearance Models and Conditional Random Fields. Cognitive Processing 13:507–518, 2012. [Impact factor: 1.03; 39 citations]
- L.J.P. van der Maaten, M. Mahecha, and S. Schmidtlein. Analyzing Floristic Inventories with Multiple Maps. Ecological Informatics 9:1–10, 2012. [Impact factor: 1.432]
- O. Brinkkemper, L.J.P. van der Maaten, and P.J. Boon. Identification of Myosotis seeds by means of digital image analysis. Vegetation History and Archaeobotany 20(5):435-445, 2011. [Impact factor: 1.656]
- P.J. Boon, A.G. Lange, L.J.P. van der Maaten, J.J. Paijmans, and E.O. Postma. Digital Support for Archaeology. Interdisciplinary Science Review 34(2-3):189-205, 2009. [Impact factor: 0.36]
- L.J.P. van der Maaten and G.E. Hinton. Visualizing High-Dimensional Data Using t-SNE. Journal of Machine Learning Research 9(Nov):2579–2605, 2008. [Impact factor: 2.949; 11,093 citations]

THESES

- L.J.P. van der Maaten. Feature Extraction from Visual Data. Ph.D. thesis (cum laude), Tilburg University, The Netherlands, June 23^{rd} 2009.
- L.J.P. van der Maaten. Improving Automatic Writer Identification. M.Sc. thesis, Maastricht University, The Netherlands, August 13th 2005.

CONFERENCE

- A. Bakhtin, L.J.P. van der Maaten, J.C. Johnson, L. Gustafson, and R.B. Girshick. PUBLICATIONS PHYRE: A New Benchmark for Physical Reasoning. In Advances of Neural Information Processing (NeurIPS), 2019. [Acceptance rate: 21%]
 - T. DeVries*, I. Misra*, C. Wang*, and L.J.P. van der Maaten. Does Object Recognition Work for Everyone? In CVPR Workshop on Computer Vision for Global Challenges, 2019.
 - H. Hu, I. Misra, and L.J.P. van der Maaten. Evaluating Text-to-Image Matching using Binary Image Selection (BISON). In ICCV Workshop Closing the Loop Between Vision and Language, 2019.
 - Y. Wang, Z. Lai, G. Huang, B.H. Wang, L.J.P. van der Maaten, M. Campbell, and K.Q. Weinberger. Anytime Stereo Image Depth Estimation on Mobile Devices. In International Conference on Robotics and Automation (ICRA), 2019.
 - A. Dubey, L.J.P. van der Maaten, Z. Yalniz, Y. Li, and D. Mahajan. Defense Against Adversarial Images using Web-Scale Nearest-Neighbor Search. In *International Con*ference on Computer Vision and Pattern Recognition (CVPR), 2019. [Acceptance rate: 25.2%]
 - C. Xie, Y. Wu, L.J.P. van der Maaten, A. Yuille, and K. He. Feature Denoising for Improving Adversarial Robustness. In International Conference on Computer Vision and Pattern Recognition (CVPR), 2019. [Acceptance rate: 25.2%; 87 citations]
 - I. Misra, R.B. Girshick, R. Fergus, M. Hebert, A. Gupta, and L.J.P. van der Maaten. Learning by Asking Questions. In IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018. [Oral acceptance rate: 2.1%; 24 citations]

- A. Veit, M. Nickel, S. Belongie, and L.J.P. van der Maaten. Separating Self-Expression and Visual Content in Hashtag Supervision. To appear in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018. [Acceptance rate: 29.6%]
- G. Huang, S. Liu, L.J.P. van der Maaten, and K.Q. Weinberger. CondenseNet: An Efficient DenseNet using Learned Group Convolutions. To appear in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018. [Acceptance rate: 29.6%; 173 citations]
- B. Graham, M. Engelcke, and L.J.P. van der Maaten. 3D Semantic Segmentation with Submanifold Sparse Convolutional Networks. To appear in *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018. [Acceptance rate: 29.6%; 85 citations]
- C. Guo, M. Rana, M. Cisse, and L.J.P. van der Maaten. Countering Adversarial Images using Input Transformations. In *International Conference on Learning Representations* (*ICLR*), 2018. [Acceptance rate: 33.6%; 265 citations]
- G. Huang, D. Chen, T. Li, F. Wu, L.J.P. van der Maaten, and K.Q. Weinberger. Multi-Scale Dense Convolutional Networks for Efficient Prediction. In *International Conference on Learning Representations (ICLR)*, 2018. [Oral acceptance rate: 2.5%; 152 citations]
- A. Li, A. Jabri, A. Joulin, and L.J.P. van der Maaten. Learning Visual N-Grams from Web Data. In *Proceedings of the International Conference on Computer Vision (ICCV)*, 2017. [Acceptance rate: 29.0%]
- J. Johnson, B. Hariharan, L.J.P van der Maaten, J. Hoffman, L. Fei-Fei, C.L. Zitnick, and R.B. Girshick. Inferring and Executing Programs for Visual Reasoning. To appear in *Proceedings of the International Conference on Computer Vision (ICCV)*, 2017. [Oral acceptance rate: 2.1%; 222 citations]
- H. Fayek, L.J.P. van der Maaten, G. Romigh, and R. Mehra. On Data-Driven Approaches to Head-Related-Transfer Function Personalization. To appear in *Audioengineering*, 2017.
- G. Huang, Z. Liu, K.Q. Weinberger, and L.J.P. van der Maaten. Densely Connected Convolutional Networks. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017. [Best paper award; Oral acceptance rate: 2.65%; 6,605 citations]
- J. Johnson, B. Hariharan, L.J.P. van der Maaten, L. Fei-Fei, C.L. Zitnick, and R.B. Girshick. CLEVR: A Diagnostic Dataset for Compositional Language and Elementary Visual Reasoning. In *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2017. [Acceptance rate: 29.0%; 447 citations]
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- L.J.P. van der Maaten and E.O. Postma. Texton-based Texture Classification. In *Proceedings of the Belgian-Dutch Artificial Intelligence Conference (BNAIC)*, pages 213–220, 2007.
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- L.J.P. van der Maaten and P.J. Boon. COIN-O-MATIC: A Fast and Reliable System for Coin Classification. In *Proceedings of the MUSCLE Coin Workshop*, pages 7–17, 2006. [69 citations]
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- L.J.P. van der Maaten and E.O. Postma. Improving Automatic Writer Identification. In *Proc. of the Belgian-Dutch AI Conference*, pages 260–266, 2005. [47 citations]

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- L.J.P. van der Maaten, E.O. Postma, and H.J. van den Herik. Dimensionality Reduction: A Comparative Review. Tilburg University Technical Report, TICC-TR 2009-005, 2009. [2,035 citations]
- L.J.P. van der Maaten. An Introduction to Dimensionality Reduction Using Matlab. Technical Report MICC 07–07. Maastricht University, Maastricht, The Netherlands, 2007. [130 citations]

INVITED TALKS

From Visual Recognition to Visual Reasoning. November 18^{th} , 2019. Duke University, Durham NC.

Privacy-Preserving Machine Learning with CrypTen. October 10^{th} , 2019. PyTorch DevCon, San Francisco CA.

From Visual Recognition to Visual Reasoning. September 11^{th} , 2019. German Conference on Pattern Recognition (GCPR), Dortmund, Germany.

From Visual Recognition to Visual Reasoning. September 9^{th} , 2019. Tilburg University, The Netherlands.

Does Object Recognition Work for Everyone? June 16^{th} , 2019. CVPR Workshop on Global Challenges for Computer Vision, Long Beach CA.

Exploring the Limits of Weakly Supervised Learning. June 16^{th} , 2019. CVPR Workshop on Visual Understanding by Learning from Web Data, Long Beach CA.

Making Image Recognition Work in the Real World. June 16^{th} , 2019. CVPR DeepVision Workshop, Long Beach CA.

Developing Efficient Convolutional Networks (And Training Them at Scale). May 24^{th} , 2019. HHMI Janelia Farm, Ashburn VA.

Developing Efficient Convolutional Networks (And Training Them at Scale). May 21^{st} , 2019. Mount Sinai Hospital, New York NY.

Developing Efficient Convolutional Networks (And Training Them at Scale). April 5^{th} , 2019. University of Amsterdam, The Netherlands.

From Visual Recognition to Visual Reasoning. April 4^{th} , 2019. Erasmus University Rotterdam, The Netherlands.

Binary Image Selection: Interpretable Evaluation of Visual Grounding. February 25^{th} , 2019. CVPR AC Meeting, San Diego CA.

From Visual Recognition to Visual Reasoning. November 3^{rd} , 2018. Machine Intelligence Conference, MIT Media Lab, Cambridge MA.

Exploring the Limits of Convolutional Networks. August 30^{th} , 2019. Deep Learning Sydney, Australia.

Visualizing Data using t-SNE. August 1^{st} , 2018. Joint Statistical Meetings (invited talk), Vancouver, Canada.

How Modern Computer Vision and Machine Learning May Impact the Analysis of Art. July 22^{th} , 2018. Gordon Research Conference, Barcelona, Spain.

Do's and Don'ts of using t-SNE to Understand Vision Models. June 18^{th} , 2018. CVPR Workshop on Interpretable Machine Learning for Computer Vision, Salt Lake City UT.

Image Classification: Models and Data. June 13^{th} , 2018. Delft University of Technology, The Netherlands.

Computer Vision for the Arts. April 12^{th} , 2018. The Frick Collection, New York NY.

From Visual Recognition to Visual Reasoning. April 6^{th} , 2018. Awesome IT Symposium, Amsterdam, The Netherlands.

From Visual Recognition to Visual Reasoning. March 5^{th} , 2018. CILVR Seminar, New York University, New York NY.

Two Tales about Image Classification. November 13^{th} , 2017. Vision and Autonomous Systems Seminar, Carnegie-Mellon University, Pittsburgh PA.

From Visual Recognition to Visual Understanding. November 9^{th} , 2017. Belgian-Dutch Artificial Intelligence Conference (keynote), Groningen, The Netherlands.

Two Tales about Image Classification. November 2^{nd} , 2017. Bay Area Vision Meeting

(BAVM), Menlo Park CA.

Efficient Recognition of Large Numbers of Visual Classes. October 13^{th} , 2017. Machine Learning Meetup, Amsterdam, The Netherlands.

From Visual Recognition to Visual Understanding. October 11^{th} , 2017. World Summit AI, Amsterdam, The Netherlands.

Building Image-Classification Models that are Accurate and Efficient. June 27^{rd} , 2017. IBM T.J. Watson Research Center, Yorktown Heights NY.

Building Image-Classification Models that are Accurate and Efficient. June 23^{rd} , 2017. ACM MobiSys (keynote), Niagara Falls NY.

The Trade-Offs of Deep-Learning Frameworks. June 5^{th} , Semiconductor Research Company, University of Texas, Dallas TX.

Building Image-Classification Models that are Accurate and Efficient. April 28^{th} , 2017. Big Data Meetup, New York NY.

Visualizing Data using Embeddings. March 28^{th} , 2017. Applied Probability and Statistics Colloquium, Royal Holloway University, Egham, United Kingdom.

Understanding and Improving Convolutional Networks. March 2^{nd} , 2017, Data Science Seminar, Leiden University, The Netherlands.

Visualizing Data using Embeddings. March 1^{st} , 2017, Machine Learning Seminar, Linköping University, Sweden.

From Visual Recognition to Visual Reasoning. February 28^{th} , 2017, ASCI Spring School on Computer Vision, Amsterdam, The Netherlands.

Visualizing Data using Embeddings. February 15^{th} , 2017, Applied Math Seminar, Yale University, New Haven CT.

News Feed Ranking: Large-Scale Logistic Regression at Facebook. February 13^{th} , 2017, Cornell Tech, New York NY.

Learning to Solve Vision without Annotating Millions of Images. October 21^{st} , 2016, Cornell University, Ithaca NY.

Learning to Solve Vision without Annotating Millions of Images. October 10^{th} , 2016, Fourth ECCV Workshop on Web-Scale Vision and Social Media (invited keynote talk), Amsterdam, The Netherlands.

Weakly Supervised Training of Convolutional Networks. April 25^{th} , 2016, Princeton University, Princeton NJ.

Visualizing Data using Embeddings. April $12^{th},\,2016,\,{\rm Columbia}$ University, New York NY

Learning to Solve Vision without Annotating Millions of Images. March 22^{nd} , 2016, ICT-Open, Amersfoort, The Netherlands.

Deep Learning: Embeddings. February 23^{rd} , 2016, New York University, New York NY.

Visualizing Data using Embeddings. Design@Large Talks. February 10^{th} , 2016, University of California, San Diego CA.

News Feed Ranking: Large-Scale Logistic Regression at Facebook. September 8^{th} , 2015, Cornell Tech, New York NY.

Learning Embeddings for Data Visualization and Language Modeling. January 28^{th} , 2015, Netherlands Institute for Neuroscience, Amsterdam, The Netherlands.

Constructing Maps to Visualize Big Data. January 15^{th} , 2015, National Conference on the Mathematics of Operations Research, Lunteren, The Netherlands.

Learning with Marginalized Corrupted Features. October 16^{th} 2014, Delft University of Technology, The Netherlands.

New Technology to Look Inside Paintings. September 25^{th} 2014, eCult Dialogue Day, Dubrovnik, Croatia.

Visualizing Spatial Gene Expression Organization in the Brain with t-SNE. September 23^{rd} 2014, Delft Data Science Symposium on Health, The Netherlands.

Visualizing (Big) Data using t-SNE. June 2^{nd} 2014, Royal Netherlands Academy of Science (KNAW), Amsterdam, The Netherlands.

Learning with Marginalized Corrupted Features. May 29^{th} 2014, Deepmind, London, United Kingdom.

Visualizing (Big) Data using t-SNE. April 29^{th} 2014, Symposium – Connecting the Bits: Discover the Huge Potential of Big Data, Delft, The Netherlands.

t-SNE and MCF: Constructing and Corrupting Features. March 31^{st} 2014, Facebook, Menlo Park CA.

Visualizing Data using t-SNE. January 13^{th} 2014, Leiden University Medical Center, The Netherlands.

Learning with Marginalized Corrupted Features. December 4^{th} 2013, Tilburg University, The Netherlands.

Using Machine Learning to Visualize (Big) Data. November 5^{th} 2013, Delft Data Science Center, Delft University of Technology, The Netherlands.

Looking at Paintings through the Eyes of a Computer. October 25^{th} 2013, University of Amsterdam, The Netherlands.

Visualizing Data using t-SNE. October 17^{th} 2013, Washington University, St. Louis MO

Visualizing Data using t-SNE. October 15^{th} 2013, Mind Research Network / University of New Mexico, Albuquerque NM.

Learning with Marginalized Corrupted Features. July 10^{th} 2013, ROKS Workshop, Leuven, Belgium.

Visualizing Data using t-SNE. June 24^{th} 2013, Google Tech Talk, Mountain View CA. [The video of this talk has been viewed over 140,000 times on Youtube.]

Structure-Preserving Object Tracking and Marginalized Corrupted Features. June 10^{th} 2013, INRIA-LEAR, Grenoble, France.

New Developments in Tracking and Forensic Painting Analysis. June 6^{th} 2013, Netherlands Forensic Institute and Dutch National Police, The Hague, The Netherlands.

Learning with Marginalized Corrupted Features. May 30th 2013, Dutch Association for Pattern Recognition and Image Processing, Utrecht, The Netherlands.

Looking at Paintings through the Eyes of a Computer. April 25^{th} 2013, Netherlands Institute for Advanced Study, Wassenaar, The Netherlands.

Learning with Marginalized Corrupted Features. April 18^{th} 2013, Centrum voor Wiskunde en Informatica (CWI), Amsterdam, The Netherlands.

On Constructing and Corrupting Features. April 1^{st} 2013, Toyota Technological Institute, Chicago IL.

How to Visualize High-Dimensional Data? January 24^{th} 2013, Data Science Meetup, Utrecht, The Netherlands.

New Machine-Learning Techniques for Predictive and Visual Analytics. January 23^{rd} 2013, University of Amsterdam, The Netherlands.

Learning with Marginalized Corrupted Features. November 9^{th} 2012, Radboud University Nijmegen, The Netherlands.

Machine Learning for Data Visualization: New Techniques and Applications. October 26^{th} 2012, SNN Machine Learning Award Lecture, Maastricht, The Netherlands.

Learning by Marginalizing Corrupted Features. October 20^{th} 2012, University of California, San Diego.

Learning when Sensors Break Down. June 22^{nd} 2012, European Space Association (ESA-ESTEC), Noordwijk, The Netherlands.

Stochastic Triplet Embedding. April 20^{th} 2012, Dutch Association for Pattern Recognition and Image Processing, Rijswijk, The Netherlands.

Learning Embeddings for Data Visualization. March 27^{th} 2012, University of Amsterdam, The Netherlands.

Introduction to Embedding for Visualization. February 20^{th} 2012, Dagstuhl Seminar 12081, Germany.

Hidden-Unit Conditional Random Fields. January 27^{th} 2012, University of Geneva, Switzerland.

Visualizing Data using t-SNE. October 17^{th} 2011, University of Groningen, The Netherlands.

Tutorial on Machine Learning for Data Visualization. August 22^{nd} 2011, Dagstuhl Seminar 11341, Germany.

Conditional Random Fields with Hidden Units. June 15^{th} 2011, Imperial College London, United Kingdom.

Hidden-Unit Conditional Random Fields. May 18th 2011, Dutch Association for Pattern Recognition and Image Processing, Utrecht, The Netherlands.

Computer Techniques for Analyzing Archaeological Finds. February 17^{th} 2011, University of Amsterdam, The Netherlands.

Conditional Random Fields with Hidden Units. December 23^{rd} 2010, Tilburg University, The Netherlands.

Conditional Random Fields with Hidden Units. November 22^{nd} 2010, University of California, San Diego.

Visualizing Data using t-SNE. November 8^{th} 2010, University of California, Irvine.

Visualizing Data using t-SNE. April 30^{th} 2010, University of Southern California, Los Angeles.

Capturing Appearance Variation in Active Appearance Models. April 23^{rd} 2010, University of California, San Diego.

Dimensionality Reduction and the Caveats of Convexity. June 23^{rd} 2009, Dimensionality Reduction Symposium, Tilburg, The Netherlands.

Exploring High-Dimensional Data using Dimensionality Reduction. June 9^{th} 2009, Workshop on Novel Data Mining Strategies for Biochemical Cycles and Biosphere-Atmosphere Interactions, Jena, Germany.

Visualizing Data using t-SNE. April 26^{th} 2009, Tilburg University, The Netherlands.

Visualizing Data using t-SNE. March 13^{th} 2009, Radboud University Nijmegen, The Netherlands.

On Parametric and Non-Metric Variants of t-SNE. April 6^{th} 2009, University of Toronto.

Visualizing Data using t-SNE. March 30^{th} 2009, University of California, San Diego.

Texton-based analysis and visualization of Van Gogh's paintings. October 21^{st} 2008, Van Gogh Museum, Amsterdam, The Netherlands.

Fast and reliable coin classification. January 29^{th} 2007, Maastricht Mathematical Modelling, Maastricht, The Netherlands.

REFERENCES Available on request.