

## Curriculum Vitae

### Personal Information

Name Roman Peter Pflugfelder  
Date of birth 18 July 1974  
Citizenship Austria  
Marital status Married, one child



### Education

30/05/2008 Doctorate studies in Technical Sciences with distinction  
Technical University Graz, Austria  
  
Society for Information and Communication Technologies of the Austrian Electrotechnical Association (OVE-GIT) award 2009 for the thesis "Self-calibrating Cameras in Video Surveillance", advisor Prof. Horst Bischof, referee Prof. James Ferryman (University of Reading, UK)  
  
Attended International Computer Vision Summer School 2008, Sicily

11/03/2002 Diploma studies in Informatics with distinction (GPA 3.74/4)  
Technical University Vienna, Austria (THE'20 Rank 76 for computer science)  
  
Institute's award PRIP 2001 (Prof. Walter Kropatsch) for the best thesis "Visual Traffic Surveillance Using Real-time Tracking"; first scientific work in Austria that applied computer vision to traffic monitoring  
  
Self-composed elective subject "Soft Computing" including Neural Networks, Evolutionary Computation and Fuzzy Logic  
  
Abroad studies:  

- 10/2000 - 04/2001: won competitive Kurt Gödel Scholarship, University of Queensland, Brisbane, Australia, Prof. Brian Lovell, Prof. Kurt Kubik
- 05/2000: invited for EU Erasmus Intensive Program Scholarship, INSA, Lyon, France, Prof. Jean-Michel Jolion

1993 – 1994 Military Service Starhemberg Casern, Clerk (Battalion), rank: Private

1988 – 1993 High school diploma in Business Informatics with distinction (GPA 3.81/4)  
Technical Secondary School HTL Donaustadt, Vienna, Austria  
  
Obtained trade authorisation; completed REFA Part A; training firm was part of the curriculum

1984 – 1988 Gymnasium BRG 4 Waltergasse, Vienna

### Professional Experience

04/2007 – present AIT Austrian Institute of Technology  
Center for Digital Safety and Security  
Scientist and Project Manager  
  
Study visual learning, object recognition in surveillance/security/safety applications; acquire and manage medium to large research projects; build

	bridges to companies interested in scientific research; led six person team
10/2003 – 03/2007	Technical University Graz Institute of Computer Graphics and Vision Research Assistant  Studied object tracking and camera calibration with non-overlapping cameras; acquired and managed my own research project
04/2002 – 09/2003	Technical University Vienna Institute of Computer-aided Automation Research Assistant  Worked on automated traffic monitoring; developed (Matlab, C) methods based on keypoint trackers (KLT) and based on robust competitive unsupervised learning (neural gas, k-means, MDL) for anomaly detection
<b>Teaching Experience</b>	
2019	Austrian Electrotechnical Association (OVE) Trainer  Give professional course on deep learning for engineers
2014 - 2015	Technical University Vienna Lecturer  “Machine Learning for Visual Computing”, 3.0h (4.5EC), Winter Semester Gave twice 12 lectures including group exercises and final exam
1998 – 2008	Technical University Vienna Student Assistant  <ul style="list-style-type: none"> <li>▪ “Einführung in das Programmieren für Anwender”</li> <li>▪ “Einführung in das Programmieren” (both: introduction to programming)</li> <li>▪ “Neuronale Netze” (neural networks)</li> <li>▪ “Anwendungen der Bildverarbeitung” (applications of image processing)</li> <li>▪ “Einführung in die Mustererkennung” (introduction to pattern recognition)</li> <li>▪ “Bildverstehen” (image understanding)</li> </ul> Tutored exercises in the B.Sc. / M.Sc. Informatics curricula
11/2010	University of Applied Sciences BFI Vienna Lecturer  Gave lecture “Human Computer Interfaces”
<b>Student Supervision</b>	
	I have no habilitation: Final acceptance by Robert Sablatnig, Horst Bischof
Ph.D.	<ul style="list-style-type: none"> <li>▪ Georg Nebehay, A Deformable Parts Model for One-Shot Object Tracking, Ph.D. thesis, TU Graz, 2016; had postdoc offer to joint Margarita Chli's group at ETH Zurich; now head of development at Locatee AG, Zurich</li> </ul>
M.Sc.	<ul style="list-style-type: none"> <li>▪ Julian Wagner, Vehicle Detection in Satellite Videos, M.Sc. thesis, TU Vienna; with Planet Labs Inc. (ongoing)</li> </ul>

- Manuel Danner, Cell Segmentation with Convolutional Neural Networks, M.Sc. thesis, TU Vienna; with Molecular Devices LCC. (ongoing)
- Georg Sperl, Person Classification with Convolutional Neural Networks, M.Sc. thesis, TU Vienna, 2016; now Ph.D. student at IST Austria, Vienna
- Timo Kropp, Matching Omnidirectional Images in Indoor Environments, M.Sc. thesis, TU Vienna, 2013, now at MeisterLabs GmbH, Vienna
- Georg Nebehay, Robust Object Tracking Based on Tracking-Learning-Detection, M.Sc. thesis, TU Vienna, 2012
- B.Sc.
  - Sergi Sanchez Deutsch, Siamese Networks for Visual Tracking, B.Sc. thesis, TU Vienna; with UPC Barcelona (ongoing)
  - Clemens Korner, Object Tracking Using Projective Invariants, B.Sc. thesis, TU Vienna, 2016, now M.Sc. student at TU Vienna
  - Michael Boula, Time sync. of networked cameras with non-overlapping views using TTA, BSc. thesis, TU Vienna, 2011
  - Timo Kropp, Visualisierung von Trajektorien live in Microsoft Bing Maps, B.Sc. thesis, TU Vienna, 2009

### Scientific Awards

- |         |  |
|---------|--|
| 06/2019 | CVPR Outstanding Reviewer  |
| 03/2014 | IEEE Winter Conference on Applications in Computer Vision (WACV)<br>Best Paper Award |
| 2009    | OVE-GIT Price of the Austrian Electrotechnical Association (OVE-GIT)                 |
| 2001    | TU Wien PRIP Price   |
| 2000    | Kurt Gödel Scholarship   |

### Academic Visits

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|-------------------|---|
| 12/2018           | SUSTech, Department of Computer Science and Engineering, Shenzhen, China, Prof. Xin Yao |
| 10/2000 - 04/2001 | University of Queensland, Brisbane, Australia, Prof. Brian Lovell, Prof. Kurt Kubik     |
| 05/2000           | INSA, Lyon, France, Prof. Jean-Michel Jolion  |

### Activities and Memberships

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|----------------|---|
| 2008 – present | Reviewer for Conferences and Workshops<br>Int. Conf. on Computer Vision and Pattern Recognition (CVPR)<br>Int. Conference on Computer Vision (ICCV)<br>European Conference on Computer Vision (ECCV)<br>Int. Conference on Robotics and Automation (ICRA)<br>Int. Conference on Intelligent Transport Systems<br>Int. Conference on Distributed Smart Cameras (ICDSC)<br>Int. Conf. on Adv. Video and Signal-based Surveillance (AVSS)<br>Austr. Association for Pattern Recognition conference (OAGM)<br>Computer Vision Winter Workshop (CVWW)<br>Workshop on Target Re-Id. and Multi-Target Multi-Cam. Track. (REID-MTMCT) |
|----------------|---|

2008 – present	<p>Reviewer for Journals</p> <p>ACM Transaction on Embedded Computing  Computer Vision and Image Understanding  IEEE Intelligent Systems  IEEE Trans. on Pattern Analysis and Machine Intelligence  IEEE Trans. on Circuits and Systems for Video Technology  IEEE Trans. on Image Processing  IEEE Signal Processing Letters  IEEE Trans. on Instrumentation and Measurement  Journal of Mathematical Imaging and Vision  Journal of the Optical Society of America  Journal of Electronic Imaging  Machine Vision and Applications  Neurocomputing  Optics and Lasers in Engineering  Pattern Recognition  Signal, Image and Video Processing</p>
2011 – present	<p>Workshop Organizer</p> <ul style="list-style-type: none"> <li>▪ Workshop on VOT in conjunction with ICCV'13, European Conference on Computer Vision (ECCV'14), ECCV'16, ICCV'17, ECCV'18, ICCV'19</li> <li>▪ Computer Vision in Applications Workshop in conjunction with Deutsche Arbeitsgemeinschaft für Mustererkennung conference (DAGM'12)</li> <li>▪ Industrial Surveillance Day, symposium in conjunction with AVSS'11</li> </ul>
2007 – present	<p>Member of Technical Program Committee</p> <ul style="list-style-type: none"> <li>▪ Workshop on Target Re-Identification and Multi-Target Multi-Camera Tracking (ReID-MTMCT), 2017</li> <li>▪ AVSS (2016 – present)</li> <li>▪ CVWW (2012 – present)</li> <li>▪ OAGM (2010 – present)</li> <li>▪ ICDSC (2007 – present)</li> </ul>
2005 – present	Member of OAGM
2004 – present	Member of the IEEE and IEEE Computer Society
2015 – present	AVSS, Steering Committee Member
2015	AVSS, Program Chair
2015	VOT in conjunction with ICCV'15, Member of Technical Committee
2014	ICDSC, Demo Chair
2011	AVSS, Industrial Chair
2009	CONICYT Chilean Science Foundation, Evaluator
2007	ICDSC, Local Arrangements Chair
<b>Professional Training</b>	
2019	<ul style="list-style-type: none"> <li>▪ Communication &amp; Conflict Management, BrainGrow, D. Hinner-Hofstätter</li> <li>▪ Strategic Selling for Scientists, Andrew Gallacher</li> </ul>

2018	Moderationstraining, Knotek Training, Christine Knotek
2017	<ul style="list-style-type: none"> <li>▪ Feedback Skills, BrainGrow, Dagmar Hinner-Hofstätter</li> <li>▪ IPMA Level D, zJPM certification</li> </ul>
2016	Projectmanagement, Primas Consulting, Andreas Goldschmid
2014	Mentaltraining für Führungskräfte (management training), Prof. Karl Stifter
2012	Strategic Selling and Analysis, Bernhard Knapp Organisationsberatung
2011	Projektentwicklung und Antragstellung im 7. EU-Rahmenprogramm (research projects in EU FP7), FFG
2010	WWTF-Patentworkshop
2009	How to write a competitive proposal for EU FP7, Hyperion, Sean McCarthy
1991	Strategisches Management in der Praxis, Austrian Industries, Georg Turnheim

### **Languages**

German	Native
English	C2 - Proficient user
French	A1 - Basic user

### **Technical Skills**

Excellent	Matlab (15+ years), C/C++ (25+ years), Latex (15+ years)
Good	MS Office, Mac OS, Linux, Windows, Python, pyTorch
Basic	SLURM, Docker, HTML/PHP, WordPress, Julia, Flux

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