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Professional Experience

- January 2017-: **Full Professor** (*professeur*) at University of Bordeaux, France.
- “*Habilitation à Diriger les Recherches*” defended on December 8, 2015 (Université Joseph Fourier, Grenoble). President: Edmond Boyer. Reviewers: Frédéric Jurie, Jiri Matas, Nikos Paragios. Examiners: Pascal Fua, Cordelia Schmid.
- February 2014-December 2016: **Full Professor** (*Universitätsprofessor*) at TU Graz, Austria.
- February 2014-January 2016: **Invited Professor** at EPFL, Switzerland.
- 2005-2014: **Research and Teaching Associate** (permanent position), CVLab, EPFL.
- 2003-2005: **Postdoc**, CVLab, EPFL.
- 2001-2003: **Postdoc**, LIG devenu VRLab, EPFL.
- *PhD in Computer Science* defended on May 23, 2001. President: Jean-Paul Haton. Reviewers: Michel Dhome, Claude Labit. Examiners: Marie-Odile Berger, Daniel Thalmann, Frédéric Alexandre.
- 1997-2001: **PhD student**, INRIA Lorraine. PhD advisor: Marie-Odile Berger.
- 1996: “*DEA d’informatique*”, Université Henri Poincaré, Nancy.
- 1996: “*Diplôme d’ingénieur en informatique de l’ESIAL*” (now Telecom Nancy).

Awards

- Google Research Award** for “Geometry-aware CNNs for Non-Rigid Shape Reconstruction”, 2017;
- Best Paper Award** for “Learning to Align Semantic Segmentation and 2.5D Maps for Geolocalization”, Joint Urban Remote Sensing Event, 2017;
- Google Research Award** for “Learning to Generate Training Images for 3D Object Recognition”, 2015;
- Best Full Paper Award** for “Instant Outdoor Localization and SLAM Initialization from 2.5D Maps”, IEEE International Symposium in Mixed and Augmented Reality (ISMAR), 2015;
- Google Research Award** for “Approximate Nearest Neighbor Search for Binary Descriptors”, 2011;
- Best Paper Award** for “Real-Time Non-Rigid Surface Detection”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2005.
- Best Demonstration Prize** for “Golf Club Visual Tracking for Enhanced Swing Analysis Tools”, British Machine Vision Conference, Norwich, UK, September 2003.

Selected Recent Invited Talks

- “3D Registration with Deep Learning”, Robotic Vision Summer School 2018, Kioloa, Australia.
- “Deep Learning for 3D Localization”, University of Amsterdam, October 30, 2017.
- “Computer Vision and Machine Learning for 3D Localization”, TU Munich and Remote Sensing Institute at the German Aerospace Center (DLR) summer school, Wangen, October 5th, 2017.

"Deep Learning for 3D Localization", Invited tutorial at BMVC'17, September 4th, 2017.

"Computer Vision and Machine Learning for 3D Localization", 5th VISUM summer school, Porto, July 7, 2017.

"(3D) Computer Vision Pipelines and Deep Learning", INRIA Grenoble, France, February 7, 2017.

"(3D) Computer Vision Pipelines and Deep Learning", Willow, INRIA Paris, France, January 27, 2017.

Editorial and Conference Duties

Associate Editor for the International Journal in Computer Vision (**IJCV**), the Computer Vision and Image Understanding (**CVIU**) journal, and the Computer Animation and Virtual Worlds (CAVW) journal.

Program Chair for the *Asian Conference on Computer Vision (ACCV)* in 2016.

Area Chair for the Conference on *Computer Vision and Pattern Recognition (CVPR)* in 2011, 2013 and 2015; for the *European Conference on Computer Vision (ECCV)* in 2010, 2014, 2016, and 2018; for the *Asian Conference on Computer Vision (ACCV)* in 2012 and 2014; for the *British Machine Vision Conference (BMVC)* in 2017.

General Chair for the International Symposium on Mixed and Augmented Reality (ISMAR) in 2011, and **Program Chair** in 2010.

Publications

Number of citations: 16139, H-index: 52, i10-index: 110

Google Scholar: <https://scholar.google.com/citations?user=stx-TZwAAAAJ&hl=en>

Most of my papers were published in the main journals and conferences in computer vision:

- **11 papers** in the IEEE Transactions of Pattern Analysis and Machine Intelligence (PAMI - **ISI impact factor 2015: 6.077**);
- **3 papers** in the International Journal on Computer Vision (IJCV - **ISI impact factor 2015: 4.278**);
- **3 papers** in the Computer Vision and Image Understanding journal (CVIU - **ISI impact factor 2015: 2.134**).
- **54 papers** at top-tier conferences (CVPR, ICCV, ECCV), including **13 orals**. The **selection rates** for these conferences are between **20% and 30%**, and between **3% and 6% for oral presentations**.

Selected Recent Publications

- [1] M. Rad and V. Lepetit. "BB8: A Scalable, Accurate, Robust to Partial Occlusion Method for Predicting the 3D Poses of Challenging Objects without Using Depth". In: *Proceedings of the International Conference on Computer Vision (ICCV)*. 2017.
- [2] A. Armagan, M. Hirzer, and V. Lepetit. "Semantic Segmentation for 3D Localization in Urban Environments". In: *Joint Urban Remote Sensing Event*. **Best Paper Award**. 2017.
- [3] A. Armagan, M. Hirzer, P. Roth, and V. Lepetit. "Learning to Align Semantic Segmentation and 2.5D Maps for Geolocalization". In: *Proceedings of the Conference on Computer Vision and Pattern Recognition (CVPR)*. 2017.
- [4] A. Crivellaro, M. Rad, Y. Verdie, K. M. Yi, P. Fua, and V. Lepetit. "Robust 3D Object Tracking from Monocular Images using Stable Parts". In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* (2017).

- [5] A. Rozantsev, V. Lepetit, and P. Fua. “[Detecting Flying Objects using a Single Moving Camera](#)”. In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* (2017).
- [6] C. Arth, C. Pirchheim, J. Ventura, D. Schmalstieg, and V. Lepetit. “Instant Outdoor Localization and SLAM Initialization from 2.5D Maps”. In: *IEEE Transactions on Visualization and Computer Graphics*. **Best full paper award at ISMAR’15**. 2016.
- [7] A. Sironi, E. Türetken, V. Lepetit, and P. Fua. “[Multiscale Centerline Detection](#)”. In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* (2016).
- [8] T. Trzcinski, C. M. Christoudias, and V. Lepetit. “[Learning Image Descriptors with Boosting](#)”. In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* (2015).
- [9] M. Oberweger, P. Wohlhart, and V. Lepetit. “[Training a Feedback Loop for Hand Pose Estimation](#)”. In: *Proceedings of the International Conference on Computer Vision (ICCV)*. Oral presentation. 2015.
- [10] P. Wohlhart and V. Lepetit. “[Learning Descriptors for Object Recognition and 3D Pose Estimation](#)”. In: *Proceedings of the Conference on Computer Vision and Pattern Recognition (CVPR)*. 2015.
- [11] S. Hinterstoisser, C. Cagniard, S. Ilic, P.F. Sturm, N. Navab, P. Fua, and V. Lepetit. “[Gradient Response Maps for Real-Time Detection of Textureless Objects](#)”. In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* (2012).
- [12] M. Calonder, V. Lepetit, M. Ozuysal, T. Trzcinski, C. Strecha, and P. Fua. “[BRIEF: Computing a Local Binary Descriptor Very Fast](#)”. In: *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)* (2012).