Adrien Gaidon

PhD, Senior Manager, Machine Learning Research

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Lawful US permanent resident

Professional Experience

2021 - **Adjunct Lecturer, Stanford University**, CA, USA.
Co-lecturer (with Prof. Niebles) for CS131: "Computer Vision: Foundations and Applications"

2020 - **Senior Manager, Machine Learning Research**, *Toyota Research Institute (TRI)*, CA, USA.
Head of the Machine Learning Research team at TRI. Applied ML research for Toyota's future products, including World-scale Autonomous Robots that learn from Experience. Our key research areas include Deep Learning (esp. self-supervised learning), Computer Vision (esp. dynamic 3D scene understanding), using Simulation for ML (esp. differentiable rendering and sim2real), and learning for planning.

2017 - 2019 **Manager & Senior Research Scientist, Machine Learning**, *Toyota Research Institute (TRI)*.
Manager of the ML team at TRI. Responsible for creating and leading TRI's ML strategy for Automated Driving, from research to ML cloud infrastructure (used in production) and deployment of safety-critical ML models on public roads. Founded and grew the team to a dozen research scientists and ML engineers. Technical advisor for Toyota AI Ventures. External leadership via publications (22 in 2017-2019), invited talks, demonstrations, and scientific collaborations (esp. with Stanford and Preferred Networks).

2013 - 2016 **Research Scientist, Computer Vision**, *Xerox Research Center Europe*, Meylan, France.
Led projects on Deep Learning for video understanding, simulation for perception, combining Computer Vision and Business Process Modeling. Transferred Computer Vision and ML algorithms to production.

2008 - 2012 **Doctoral Researcher**, *Microsoft Research - Inria joint center*, Paris, France.
Invented, implemented, and experimentally validated state-of-the-art Computer Vision and Machine Learning algorithms for action recognition in challenging real-world video sources like movies or YouTube videos. Contributions on how to decompose actions into structured, discriminative, and robust models.

2008 **R&D Engineer**, *LEAR team, Inria*, Grenoble, France.
Implementation in Python/C/C++ of event and object classification and detection algorithms. Participation to two international Computer Vision competitions: TRECVID and PASCAL VOC. Experimentation on tens of thousands of images and videos, using a cluster of computers, under strong time constraints.

06-08/2007 **Research intern**, *Inria Rocquencourt*, Paris, France.
Structure learning of dynamic Bayesian networks using statistical tests and genetic algorithms.

06-08/2006 **Research intern**, *LIG research lab, IMAG institute*, Grenoble, France.
Implementation (OCaml) of formal methods in the automatic proof research domain.

Education

2008 - 2012 **PhD in Computer Science**, *Microsoft Research - INRIA, Paris & LEAR Team, INRIA Grenoble*, under the supervision of Cordelia Schmid and Zaid Harchaoui, in the fields of Computer Vision and Machine Learning. Title: *Structured Models for Action Recognition in Real-world Videos.*

2007 - 2008 **MSc in Artificial Intelligence**, *Institut Polytechnique (INP)*, Grenoble, France.

2005 - 2008 **Engineer Diploma in Computer Science and Applied Mathematics**, *ENSIMAG (Ecole Nationale Supérieure d'Informatique et de Mathématiques Appliquées de Grenoble)*, France.

2003 - 2005 **"Classes Préparatoires MPSI et MP*"**, *preparation courses (Mathematics and Physics) for the French "Grandes Écoles"*, Clermont-Ferrand, France.

2003 **European Scientific Baccalaureate with distinction**, *equivalent to "A" levels.*

Awards

2021 Outstanding reviewer award at CVPR 2015, 2018, 2021

2020 Winner (with Blake Wulfe) of the NeurIPS 2020 ProcGen RL Competition , report

2020 Top 10% reviewer award at NeurIPS 2020

2018 COCO-Mapillary Competition Runner-Up at ECCV 2018

2015 Xerox Innovation Group President's Award for innovative research in Computer Vision

2008 - 2012 Microsoft Research - Inria PhD scholarship grant

2008 Co-winner of the PASCAL VOC 2008 challenge on object classification and detection

Press Coverage & Interviews

Gradient Dissent Podcast: Advancing ML research in autonomous vehicles , 2021

TechXplore: "A framework to increase the safety of robots operating in crowded environments" , 2020

TWiMLAI podcast: "Advancing Autonomous Vehicle Development Using Distributed Deep Learning", 2019

DL Summit interview on ML at Toyota, 2019

W&B interview on ML at TRI, 2019

AWS Blog: "TRI accelerates safe automated driving with deep learning at a global scale on AWS", 2018

Forbes: "Artificial Intelligence: The Clever Ways Video Games Are Used To Train AIs", 2018

Forbes: "How Deep Learning Can Use Virtual Worlds To Solve Real World Problems", 2016

MIT Tech Review: "To Get Truly Smart, AI Might Need to Play More Video Games", 2016

Wired: "Making AI Play Lots of Videogames Could Be Huge (No, Seriously)", 2016

El Espanol: "Máquinas más listas gracias a los videojuegos", 2016

Communication Skills

— With Humans

Native French

Fluent English & German *Lived in the USA and in Germany*

— With Computers

Languages Python (proficient), C/C++, bash

Others PyTorch (main DL framework), Docker, Linux, AWS, HPC

— With Researchers

Computer Vision object detection, tracking, semantic segmentation, action recognition, 3D vision (esp. depth estimation), synthetic data (esp. from simulators and game engines)

Machine Learning Deep Learning (esp. convnets), supervised learning, self-supervised learning, domain adaptation, multi-task learning, optimization, kernel methods, time series analysis

Community

Scientific community Reviewer for the major machine learning, computer vision, and robotics conferences and journals (CVPR, ICLR, ICRA, RSS, NeurIPS, ICML, ICCV, ECCV, BMVC, IJCV, PAMI, TCSVT, ...)

Open Source Contributor to and creator of Open Source Python projects, especially on action recognition, camera motion compensation, and kernel methods (`https://github.com/daien`)

Scientific Activities

50+ publications ($\approx 4,000$ citations), 70+ patents filed (23 granted): Google Scholar profile , Patents

Co-organizer of the CVPR 2021 workshop on the Frontiers of Monocular 3D Perception (Mono3D)

Co-organizer of the ICML 2020 workshop on AI for Autonomous Driving (AIAD)

Co-organizer of the ECCV 2020 workshop on Perception for Autonomous Driving (PAD)

Co-organizer of the CVPR 2020 workshop on Frontiers of Monocular 3D Perception

Co-organizer of the ICML 2019 workshop on AI for Autonomous Driving (AIAD)

Guest Editor for International Journal of Computer Vision (IJCV) Special Issue on "Synthetic Visual Data"

Co-organizer of the first international workshop on *Virtual/Augmented Reality for Visual Artificial Intelligence* (VARVAI) at ECCV 2016 & ACM-MM 2016, `http://adas.cvc.uab.es/varvai2016/`

— Publications in peer-reviewed international journals

Full Surround Monodepth from Multiple Cameras,
V. Guizilini, I. Vasiljevic, R. Ambrus, G. Shakhnarovich, A. Gaidon, RA-L & ICRA, 2022

Learning Optical Flow, Depth, and Scene Flow without Real-World Labels,
V. Guizilini, KH. Lee, R. Ambrus, A. Gaidon, RA-L & ICRA, 2022

RAT iLQR: A Risk Auto-Tuning Controller to Optimally Account for Stochastic Model Mismatch,
H. Nishimura, N. Mehr, A. Gaidon, M. Schwager, RA-L & ICRA, 2021

Spatiotemporal Relationship Reasoning for Pedestrian Intent Prediction,
B. Liu, E. Adeli, Z. Cao, KH Lee, A. Shenoi, A. Gaidon, JC Niebles, RA-L & ICRA, 2020

Generating Human Action Videos by Coupling 3D Game Engines and Probabilistic Graphical Models,
CR. de Souza, A. Gaidon, Y. Cabon, N. Murray, AM. Lopez, IJCV, 2019, preprint

The Reasonable Effectiveness of Synthetic Visual Data, A. Gaidon, AM. Lopez, F. Perronnin,
Guest Editorial of IJCV Special Issue on "Synthetic Visual Data", 2018, paper

Activity Representation with Motion Hierarchies,
A. Gaidon, Z. Harchaoui, C. Schmid, IJCV, 2014, paper , code

Temporal Localization of Actions with Actoms,
A. Gaidon, Z. Harchaoui, C. Schmid, PAMI, 2013, paper , code

— Publications in peer-reviewed international conferences

Self-supervised Learning is More Robust to Dataset Imbalance,
H. Liu, JZ. HaoChen, A. Gaidon, T. Ma, **ICLR, 2022 (spotlight)**

Dynamics-Aware Comparison of Learned Reward Functions,
B. Wulfe, A. Balakrishna, L. Ellis, J. Mercat, R. McAllister, A. Gaidon, **ICLR, 2022 (spotlight)**

Self-Supervised Camera Self-Calibration from Video,
J. Fang, I. Vasiljevic, V. Guizilini, R. Ambrus, G. Shakhnarovich, A. Gaidon, MR. Walter, ICRA, 2022

Control-Aware Prediction Objectives for Autonomous Driving,
R. McAllister, B. Wulfe, J. Mercat, L. Ellis, S. Levine, A. Gaidon, ICRA, 2022

Provable Guarantees for Self-Supervised Deep Learning with Spectral Contrastive Loss,
J. HaoChen, C. Wei, A. Gaidon, T. Ma, **NeurIPS, 2021 (oral)**

Single-Shot Scene Reconstruction, S. Zakharov, R. Ambrus, D. Park, V. Guizilini, W. Kehl, F. Durand,
J. Tenenbaum, V. Sitzmann, J. Wu, A. Gaidon, CoRL, 2021

Is Pseudo-Lidar needed for Monocular 3D Object detection?,
D. Park*, R. Ambrus*, V. Guizilini, J. Li, A. Gaidon, ICCV, 2021

Geometric Unsupervised Domain Adaptation for Semantic Segmentation,
V. Guizilini, J. Li, R. Ambrus, A. Gaidon, ICCV, 2021

Learning to Track with Object Permanence,
P. Tokmakov, J. Li, W. Burgard, A. Gaidon, ICCV, 2021

Warp-Refine Propagation: Semi-Supervised Auto-labeling via Cycle-consistency,
A. Ganeshan, A. Vallet, Y. Kudo, S. Maeda, T. Kerola, R. Ambrus, D. Park, A. Gaidon, ICCV, 2021

Sparse Auxiliary Networks for Unified Monocular Depth Prediction and Completion,
V. Guizilini, R. Ambrus, W. Burgard, A. Gaidon, CVPR, 2021

Hierarchical Lovász Embeddings for Proposal-free Panoptic Segmentation,
T. Kerola, J. Li, A. Kanehira, Y. Kudo, A. Vallet, A, Gaidon, CVPR, 2021

Monocular Depth Estimation for Soft Visuotactile Sensors,
R. Ambrus*, V. Guizilini*, N. Kuppuswamy*, A. Beaulieu, A. Gaidon, A. Alspach, RoboSoft, 2021

Heteroskedastic and Imbalanced Deep Learning with Adaptive Regularization,
K. Cao, Y. Chen, J. Lu, N. Arechiga, A. Gaidon, T. Ma, ICLR, 2021

Self-Supervised 3D Keypoint Learning for Ego-motion Estimation,
J. Tang, R. Ambrus, V. Guizilini, S. Pillai, H. Kim, P. Jensfelt, A. Gaidon, **CoRL, 2020 (oral)**

MATS: An Interpretable Trajectory Forecasting Representation for Planning and Control,
B. Ivanovic, A. Elhafsi, G. Rosman, A. Gaidon, M. Pavone, CoRL, 2020

Neural Ray Surfaces for Self-Supervised Learning of Depth and Ego-motion, I. Vasiljevic, V. Guizilini, R. Ambrus, S. Pillai, W. Burgard, G. Shakhnarovich, A. Gaidon, **3DV, 2020 (oral)**

It Is Not the Journey but the Destination: Endpoint Conditioned Trajectory Prediction, K. Mangalam, H. Girase, S. Agarwal, K-H. Lee, E. Adeli, J. Malik, A. Gaidon, **ECCV, 2020 (oral, top 2%)**

Monocular Differentiable Rendering for Self-Supervised 3D Object Detection, D. Beker, H. Kato, MA. Morariu, T. Ando, T. Matsuoka, W. Kehl, A. Gaidon, ECCV, 2020

Reinforcement Learning based Control of Imitative Policies for Near-Accident Driving, Z. Cao, E. Biyik, W. Z. Wang, A. Raventos, A. Gaidon, G. Rosman, D. Sadigh, RSS, 2020

Risk-Sensitive Sequential Action Control with Multi-Modal Human Trajectory Forecasting for Safe Crowd-Robot Interaction, H. Nishimura, B. Ivanovic, A. Gaidon, M. Pavone, M. Schwager, IROS, 2020

Driving Through Ghosts: Behavioral Cloning with False Positives, A. Bühler, A. Gaidon, A. Cramariuc, R. Ambrus, G. Rosman, W. Burgard, IROS, 2020

PillarFlow: End-to-end Birds-eye-view Flow Estimation for Autonomous Driving, KH Lee, M. Kliemann, A. Gaidon, J. Li, C. Fang, S. Pillai, W. Burgard, IROS, 2020

Game-Theoretic Planning for Risk-Aware Interactive Agents, M. Wang, N. Mehr, A. Gaidon, M. Schwager, IROS, 2020

Behaviorally Diverse Traffic Simulation via Reinforcement Learning, S. Shiroshita, S. Maruyama, D. Nishiyama, MY. Castro, K. Hamzaoui, G. Rosman, J. DeCastro, KH. Lee, A. Gaidon, IROS, 2020

Discovering Avoidable Planner Failures of Autonomous Vehicles Using Counterfactual Analysis in Behaviorally Diverse Simulation, D. Nishiyama, MY. Castro, S. Maruyama, S. Shiroshita, K. Hamzaoui, Y. Ouyang, G. Rosman, J. DeCastro, KH. Lee, A. Gaidon, ITSC, 2020

3D Packing for Self-Supervised Monocular Depth Estimation, V. Guizilini, R. Ambrus, S. Pillai, A. Raventos, A. Gaidon, **CVPR, 2020 (oral, top 5.7%)**

Autolabeling 3D Objects with Differentiable Rendering of SDF Shape Priors, S. Zakharov, W. Kehl, A. Bhargava, A. Gaidon, **CVPR, 2020 (oral, top 5.7%)**

Real-Time Panoptic Segmentation from Dense Detections, R. Hou, J. Li, A. Bhargava, A. Raventos, V. Guizilini, C. Fang, J Lynch, A. Gaidon, **CVPR, 2020 (oral, top 5.7%)**

Spatio-Temporal Graph for Video Captioning with Knowledge Distillation, B. Pan, H. Cai, DA Huang, KH Lee, A. Gaidon, E. Adeli, JC Niebles CVPR, 2020

Semantically-Guided Representation Learning for Self-Supervised Monocular Depth, V. Guizilini, R. Hou, J. Li, R. Ambrus, A. Gaidon, ICLR, 2020

Disentangling Human Dynamics for Pedestrian Locomotion Forecasting with Noisy Supervision, K. Mangalam, E. Adeli, KH. Lee, A. Gaidon, JC. Niebles, WACV (**oral**), 2020 , video

Learning Imbalanced Datasets with Label-Distribution-Aware Margin Loss, K. Cao, C. Wei, A. Gaidon, N. Arechiga, T. Ma, NeurIPS, 2019 , also **oral** at BayLearn 2019

Exploring the Limitations of Behavior Cloning for Autonomous Driving, F. Codevilla, E. Santana, AM. Lopez, A. Gaidon, **ICCV, 2019 (oral, top 4.3%)** , video

Robust Semi-Supervised Monocular Depth Estimation with Reprojected Distances, V. Guizilini, R. Ambrus, S. Pillai, A. Gaidon, **CoRL, 2019 (spotlight)**

Two Stream Networks for Self-Supervised Ego-Motion Estimation, R. Ambrus, V. Guizilini, J. Li, S. Pillai, A. Gaidon, **CoRL, 2019 (spotlight)**

An Attention-based Recurrent Convolutional Network for Vehicle Taillight Recognition, KH. Lee, T. Tagawa, J.M. Pan, A. Gaidon, B. Douillard, IV, 2019

ROI-10D: Monocular Lifting of 2D Detection to 6D Pose and Metric Shape, F. Manhardt, W. Kehl, A. Gaidon, CVPR, 2019

SPIGAN: Privileged Adversarial Learning from Simulation, KH. Lee, G. Ros, J. Li, A. Gaidon, ICLR, 2019

SuperDepth: Self-Supervised, Super-Resolved Monocular Depth Estimation, S. Pillai, R. Ambrus, A. Gaidon, ICRA, 2019

Procedural Generation of Videos to Train Deep Action Recognition Networks, C. de Souza, A. Gaidon, Y. Cabon, A.M. López, CVPR, 2017, paper , arXiv PHAV dataset

Sympathy for the Details: Dense Trajectories and Hybrid Classification Architectures for Action Recognition,
C. de Souza, A. Gaidon, E. Vig, A.M. López, ECCV, 2016, paper , arXiv

Virtual Worlds as Proxy for Multi-Object Tracking Analysis,
A. Gaidon, Q. Wang, Y. Cabon, E. Vig, CVPR, 2016, paper , arXiv , VKITTI dataset

Online Domain Adaptation for Multi-Object Tracking,
A. Gaidon, E. Vig, **BMVC, 2015 (oral, top 7%)**, paper , arXiv

Deep Fishing: Gradient Features from Deep Nets,
A. Gordo, A. Gaidon, F. Perronnin, BMVC, 2015, paper , arXiv

Extending Generic BPM with Computer Vision Capabilities,
A. Mos, A. Gaidon, E. Vig, RMSOC, 2015, paper

Recognizing Activities with Cluster-trees of Tracklets,
A. Gaidon, Z. Harchaoui, C. Schmid, BMVC, 2012, paper

A Time Series Kernel for Action Recognition,
A. Gaidon, Z. Harchaoui, C. Schmid, BMVC 2011, paper , code

Actom Sequence Models for Efficient Action Detection,
A. Gaidon, Z. Harchaoui, C. Schmid, CVPR, 2011, paper , project

Mining Visual Actions from Movies,
A. Gaidon, M. Marszalek, C. Schmid, **BMVC, 2009 (oral, top** 9%), paper , project , talk

— Other publications

Differentiable Rendering: A Survey,
H. Kato, D. Beker, M. Morariu, T. Ando, T. Matsuoka, W. Kehl, A. Gaidon, arXiv, 2020

Learning to Fuse Things and Stuff, J. Li, A. Raventos, A. Bhargava, T. Tagawa, A. Gaidon, arXiv, 2018

Online Learning to Sample, G. Bouchard, G. T. Trouillon, J. Perez, A. Gaidon, arXiv, 2015

Self-Learning Camera: Autonomous Adaption of Object Detectors to Unlabeled Video Streams,
A. Gaidon, G. Zen, J-A. Rodriguez-Serrano, arXiv, 2014

Automatic Recognition of Human Activities in Realistic Videos,
A. Gaidon, Z. Harchaoui, C. Schmid, ERCIM News Magazine, 2013

Classification aided two stage localization,
H. Harzallah, C. Schmid, F. Jurie, A. Gaidon, PASCAL VOC Challenge Workshop, ECCV 2008

Inria-LEAR's video copy detection system,
M. Douze, A. Gaidon, H. Jegou, M. Marszalek, C. Schmid, TRECVID Workshop 2008

— Invited talks and demos

2022 "Self-Supervised Analysis-by-Synthesis", invited talk at the Deep Learning Summit, SF, 2022

2021 "Self-Supervised Depth for Monocular 3D Perception", invited talk at the ICCV 2021 Workshop on 3D Object Detection from Images

"Bridging the Perception-Control Gap with Prediction", invited talk at the ICCV 2021 Workshop on Benchmarking Trajectory Forecasting Models

"Scalable Geometric and Synthetic Supervision for Scene Understanding", invited talk at the ICCV 2021 ROAD Workshop

"Bridging the Perception-Control Gap with Prediction", invited talk at the RSS workshop on Perception and Control for Autonomous Navigation in Crowded, Dynamic Environments

"Self-supervised 3D Vision", invited talk at Oxford

2020 "Driving ML across the Stack", invited talk at TUM

"The 3 R's and P's of Autonomous Driving: Robustness, Randomness, and Risk in Perception, Prediction, and Planning", talk at RSS 2020 workshop on Interaction and Decision-Making in Autonomous-Driving and at IPAM's workshop on Autonomous Vehicles

"Scaling up ML for Autonomy", talk at Wayve.ai

"Spatiotemporal Relationship Reasoning for Pedestrian Intent Prediction", Long-term Human Motion Prediction workshop, ICRA'20, , video

2019 "Self-Supervised Pseudo-Lidar Networks", Stanford Robotics seminar and ICCV 2019 Workshop on Autonomous Driving - Beyond Single-Frame Perception

"Learning from Structure for World-Scale Automated Driving", ICCV workshop on Autonomous Navigation in Unconstrained Environment (AutoNUE)

"Self-Supervised Monocular Depth for Automated Driving", talk at CVPR 2019 Workshop on Workshop on Autonomous Driving - Beyond Single-Frame Perception

"Beyond Supervised Driving", talk at Element AI & MILA, Montreal

"Predicting and Using Monocular Depth for Deep Driving", talk at IV 2019 workshop on 3D Deep Learning for Automated Driving (3D-DLAD)

"Beyond Supervised Driving", talk at IV 2019 workshop on Unsupervised Learning for Automated Driving (ULAD)

"Scaling Beyond Supervised Driving with PyTorch", talk at F8, San Jose, USA, video

"Beyond Supervised Driving", invited talk at Stanford

"Predicting and Using Monocular Depth for Deep Driving", invited talk at TTIC, Chicago

"Beyond Supervised Driving", oral presentation at GTC'19, San Jose,

"Beyond Supervised Driving", talk at the ML Tokyo Meetup, Tokyo

"Beyond Supervised Driving", talk at the Deep Learning Summit, San Francisco video

"Beyond Supervised Driving", talk at AMLD, EPFL

"Predicting and Using Monocular Depth for Deep Driving", invited talk at Mapillary, Graz, Austria

"Beyond Supervised Driving", invited talk at Naver Labs Europe, Grenoble, France

2018 "Advancing Autonomous Vehicle Development Using Distributed Deep Learning", talk at AWS re:Invent, Las Vegas

Hacker Dojo Course on Autonomous Vehicles, Santa Clara

"Beyond Supervised Driving" invited talk at University of Amsterdam, NL, video

"Bridging the gap between fundamental research and product development at TRI by applying techniques from AI and ML" invited talk at World Summit AI, Amsterdam, NL

"Beyond Supervised Driving" invited talk at the Beyond Supervised Learning workshop, CVPR 2018, Salt Lake City,

"Living on the edge case: how autonomous vehicles can deal with an extremely messy world", panel discussion at The Autonomous Vehicle Summit, San Francisco , Recording

"Advancing State-of-the-Art of Autonomous Vehicles and Robotics Research using AWS GPU Instances", invited talk at GTC 2018

"Deep Learning and Simulation for Automated Driving at Scale" invited talk at the Auto AI Conference, San Francisco

"Simulation and Deep Learning for Autonomous Driving" invited talk at University of Washington

2017 Panel discussion and invited talk on "Deep Learning and Simulation for real-world Machine Intelligence in Autonomous Driving" at NIPS 2017 ML for Intelligent Transportation Systems

"Need for Sim: Procedural Generation of Realistic Driving Environments and Human Actions for Deep Learning", invited talk at Google Brain, Mountain View

"Need for Sim: Procedural Generation of Realistic Driving Environments and Human Actions for Deep Learning", IV 2017 Deep Driving workshop

2016 "Realistic Virtual Worlds and Human Actions for Video Understanding" demo at NIPS 2016

Invited talks at Zoox, San Francisco; THOTH, Inria, France; Philips Research, Paris, France

Virtual Worlds for Computer Vision demo at CVPR 2016, Las Vegas

2014 Self-Learning Camera demo at ECCV 2014

Invited presentation at the TASK-CV workshop at ECCV 2014

Invited talk at LEAR - Inria Grenoble, France

2013 Invited talk at ERMITES Summer School, France

Invited talk at Xerox Research Center Europe, France

2012 Invited talk at the MSR - Inria CVML workshop, Microsoft Research, Cambridge, UK
Invited talk at ETH Zürich, Switzerland
Invited talk at the Xerox Research Center Europe (XRCE), Meylan, France

2011 Invited talk at the GdR ISIS, CNRS, Paris
Invited talk at the Computer Vision Center (CVC), Autonomous University of Barcelona, Spain
Technical demo at the Microsoft Research - Inria forum, Paris, France

2010 Invited talk at the Visual Geometry Group, University of Oxford, UK
Invited talk at the Microsoft Research - Inria vision workshop, Paris, France

— Collaboration

2017- Collaboration with Stanford on ML for Automated Driving on multiple projects spanning perception, prediction, planning, control

2018 Internship supervisor of Felipe Codevilla with Eder Santana and Antonio Lopez (CVC)

2017 Internship supervisor of Shyamal Buch with Juan Carlos Niebles (Stanford)

2015-2017 PhD co-supervisor of Cesar de Souza on Learning Representations for Behavior Understanding in Videos, collaboration with Professor Antonio Lopez at the Computer Vision Center of the Autonomous University of Barcelona (UAB), Spain

2015-2016 Co-supervisor of Vladyslav Sydorov on human pose estimation in videos, collaboration with Karteek Alahari and Cordelia Schmid at Inria, France

2015-2016 Internship supervisor of Yohann Cabon on virtual worlds for video analytics

2015 Internship co-supervisor of Qiao Wang on virtual worlds for multi-object tracking analysis

2014 Internship co-supervisor of Gloria Zen on self-learning cameras