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I. Education:

| <u>School</u> | <u>Degree</u> | <u>Date</u> |
|-----------------------------|---------------|-------------|
| University of Pennsylvania. | B.S.E | 1988 |
| MIT | MS | 1991 |
| MIT | Ph.D. | 1996 |

II. Experience:

| <u>Employer</u> | <u>Position</u> | <u>Beginning</u> | <u>Ending</u> |
|-------------------------|--------------------------|------------------|---------------|
| Univ. of Pennsylvania | Sys. Prog./Administrator | 1985 | 1988 |
| Cold Spring Harbor Lab | Teaching Assistant | 1994 | 1994 |
| Stanford University | Visiting Researcher | 1994 | 1994 |
| Stanford University | Visiting Instructor | 1997 | 1997 |
| Interval Research Corp. | Research Staff | 1996 | 1999 |
| MIT | Assistant Professor | 1999 | 2003 |
| MIT | Associate Professor | 2003 | 2008 |
| ICSI | Group Leader | 2008 | 2014 |
| UC Berkeley CS | Associate Adj. Professor | 2008 | 2011 |
| UC Berkeley CS | Professor-in-Residence | 2011 | present |

III. Professional Service:

| <u>Activity</u> | <u>Beginning</u> | <u>Ending</u> |
|--|---|---------------|
| Conference on Computer Vision and Pattern Recognition (CVPR) | | |
| Area Chair | 2001, 2008, 2017, 2019, 2020, 2021, 2022 | |
| Program Chair | 2010 | |

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| International Conference on Computer Vision (ICCV) Area Chair | 2005, 2015 | |
| International Conference on Multimodal Interfaces (ICMI) | | |
| Program Committee | 2000, 2002 | |
| Advisory board member | 2003 | 2011 |
| Program Chair | 2003 | |
| General Chair | 2004 | |
| Area Chair | 2005, 2006 | |
| European Conference on Computer Vision (ECCV) Area Chair | 2016, 2018, 2022 | |
| Intl. Conference on Machine Learning (ICML) Area Chair | 2016, 2018 | |
| Intl. Conference on Learning Representations (ICLR) Area Chair | 2016, 2020 | |
| Conference on Perceptual User Interfaces (PUI) | | |
| Program Chair | 2001 | |
| Conference on Ubiquitous Computing (UBICOMP) Program Committee | 2002 | |
| NSF Panels (CISE, SBIR, HCI, ITR, CAREER, AI, NRI, ...) | 2002 | present |
| DARPA Information Science and Technology Advisory Study Group (ISAT): Member | 2003 | 2007 |
| Member, Second Appointment | 2011 | 2014 |
| Future Command Study | 2003 | 2004 |
| Embedded Humans Study | 2004 | 2005 |
| Trusted Deployable Adaptive Systems Study | 2005 | 2006 |
| Data Taming Study | 2005 | 2006 |
| Co-Chair, Adaptive and Interactive Representations Quick Reaction Study | 2006 | |
| Chair, Exploitation of Persistent Operational Surveillance (EXPOSE) Study | 2007 | 2008 |
| Chair, TACT Study | 2012 | 2013 |
| Chair, TRUST Study | 2013 | 2014 |
| Neural Information Processing Systems (NIPS) Conference: Senior Program Committee / Area Chair | 2004 | |
| Senior Area Chair | 2018 | |
| Editor, <i>CACM Special Issue on Perceptive Multimodal Interfaces</i> | 2004 | |
| AAAI conference; Program Committee, 2004 | 2004 | |
| Associate Editor, <i>Artificial Intelligence Journal</i> | 2004 | 2011 |
| Associate Editor, <i>IEEE Trans. Pattern Analysis and Machine Intelligence</i> | 2005 | 2011 |
| Second term | 2015 | 2017 |
| DARPA Computer Sciences Futures Study (Junior Faculty), Member | 2006 | |

IV. Honors and Awards

Outstanding paper award, International Conference on Multimodal Interfaces, 2005

Outstanding paper award, International Conference on Multimodal Interfaces, 2006

Best paper award, Internet Vision Workshop, 2008

Keynote Speaker, ACM Intelligent User Interfaces Conference: “Image Recognition Interfaces,” February 2009.

Best Cognitive Robotics Paper Award, International Conference on Robotics and Automation 2013

Best Open Source Software Award, ACM Multimedia 2014

Best Paper Honorable Mention, Computer Vision and Pattern Recognition 2015

Best Paper, North American Association for Computational Linguistics, 2016

Everingham Award, ICCV 2017

V. Postdocs

Current

| <u>Name</u> | <u>Dates of Appointment</u> | <u>PhD Granting Institution</u> | <u>Curr. Position</u> |
|-------------|-----------------------------|---------------------------------|-----------------------|
| David Chan | 2024- | UCB | Postdoct. |

Previous

| <u>Name</u> | <u>Title</u> | <u>Employer</u> | <u>Position</u> |
|--------------------|-------------------------|-----------------------|-------------------|
| Konrad Tollmar | Postdoctoral Lecturer | Lund University | Assoc. Prof. |
| David Demirdjian | Postdoctoral Researcher | Toyota Research | Research Sci. |
| Raquel Urtasun | Postdoctoral Researcher | TTI-C | Asst. Prof. |
| Mario Fritz | Postdoctoral Researcher | MPI | Junior Prof. |
| Mathieu Salsmann | Postdoctoral Researcher | TTI-C | Asst. Prof. |
| Mario Christoudias | Postdoctoral Researcher | EPFL | Postdoc |
| Brian Kulis | Postdoctoral Researcher | Ohio State University | Asst. Prof. |
| Kate Saenko | Postdoctoral Researcher | B.U. | Assoc. Prof. |
| Sergio Guadarrama | Postdoctoral Researcher | Google | Research Engineer |
| Daniel Goehring | Postdoctoral Researcher | HU Berlin | Asst. Prof |
| Lorenzo Riano | Postdoctoral Researcher | Bosch NA | Sr. Research Eng. |
| Jiashi Feng | Postdoctoral Researcher | NUS | Asst. Prof |

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|--------------------|-------------------------|----------------------|--------------------|
| Stefanie Jegelka | Postdoctoral Researcher | MIT | Asst. Prof |
| Marcus Rohrbach | Postdoctoral Researcher | FAIR | Research Sci. |
| Ryan Ferrell | Postdoctoral Researcher | BYU | Asst. Prof. |
| Ross Girshick | Postdoctoral Researcher | FAIR | Research Sci. |
| Philipp Krahenbuhl | Postdoctoral Researcher | UT Austin | Asst. Prof. |
| Oscar Beijbom | Postdoctoral Researcher | Startup | CTO |
| Zeynep Akata | Postdoctoral Researcher | U. Amsterdam | Asst. Prof. |
| Fisher Yu | Postdoctoral Researcher | ETHZ | Asst. Prof. |
| Huijuan Xu | Postdoctoral Researcher | Penn State | Asst. Prof. |
| Anna Rohrbach | Postdoc & Rsrch. Sci. | TU Darmstadt | Prof. |
| Angjoo Kanazawa | Postdoctoral Researcher | UCB | Asst. Prof. |
| Xihui Liu | Postdoctoral Researcher | Hong Kong University | Asst. Prof. |
| Roi Herzig | Postdoctoral Researcher | IBM | Research Scientist |

VI. Students

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|------|------------------------|----------|----------------------|--|
| 2005 | Gregory Shakhnarovich | MIT EECS | Doctor of Philosophy | Learning Features for Visual Classification |
| 2005 | Ali Rahimi | MIT EECS | Doctor of Philosophy | Learning to Transform Time Series with a Few Examples, Oct. 2005 |
| 2006 | Louis-Philippe Morency | MIT EECS | Doctor of Philosophy | Dialogue Context and Visual Gesture Recognition |

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|------|--------------------|----------|----------------------|---|
| 2006 | Kevin Wilson | MIT EECS | Doctor of Philosophy | Learning Uncertainty Models for Audiovisual Speech Source Localization in Real-World Environments |
| 2006 | Kristen Grauman | MIT EECS | Doctor of Philosophy | Matching sets of features for efficient retrieval and recognition, |
| 2006 | Leonid Taycher | MIT EECS | Doctor of Philosophy | Statistical methods for dynamic visual processing |
| 2008 | Sy Bor Wang | MIT EECS | Doctor of Philosophy | Communication Error Detection Using Facial Expressions |
| 2009 | Kate Saenko | MIT EECS | Doctor of Philosophy | Image Sense Disambiguation: A Multimodal Approach |
| 2009 | Tom Yeh | MIT EECS | Doctor of Philosophy | Interacting with Computers using Images for Search and Automation |
| 2009 | Mario Christoudias | MIT EECS | Doctor of Philosophy | Probabilistic Models for Semi-Supervised |

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|------|-------------------|----------------------|----------------------|--|
| | | | | Learning and Coding |
| 2009 | Ariadna Quattoni | MIT EECS | Doctor of Philosophy | Transfer Learning Algorithms for Image Classification |
| 2010 | Ashley Eden | Computer Science PhD | Doctor of Philosophy | Finding Lost Children |
| 2014 | Sergey K. Karayev | Computer Science PhD | Doctor of Philosophy | Anytime Recognition of Objects and Scenes |
| 2014 | Hyun Oh Song | Computer Science PhD | Doctor of Philosophy | Learning with Parsimony for Large Scale Object Detection and Discovery |
| 2014 | Yangqing Jia | Computer Science PhD | Doctor of Philosophy | |
| 2015 | Ning Zhang | Computer Science PhD | Doctor of Philosophy | Visual Representations for Fine-grained Categorization |

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|------|--------------------|-------------------------------|----------------------|---|
| 2016 | Judy Hoffman | EECS | Doctor of Philosophy | Adaptive Learning Algorithms for Transferable Visual Recognition |
| 2016 | Judith F. Hoffman | Electrical Eng & Comp Sci PhD | Doctor of Philosophy | Adaptive Learning Algorithms for Transferable Visual Recognition |
| 2016 | Jonathan L. Long | Computer Science PhD | Doctor of Philosophy | Understanding and Designing Convolutional Networks for Local Recognition Problems |
| 2017 | Jeffrey D. Donahue | Computer Science PhD | Doctor of Philosophy | Transferrable Representations for Visual Recognition |
| 2017 | Deepak Pathak | EECS | Doctor of Philosophy | |
| 2018 | Chelsea B. Finn | EECS | Doctor of Philosophy | Learning to Learn with Gradients |
| 2019 | Yang Gao | Computer Science PhD | Doctor of Philosophy | End to End Learning in Autonomous Driving Systems |

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|------|------------------------|-------------------------------|----------------------|---|
| 2019 | Deepak Pathak | Computer Science PhD | Doctor of Philosophy | Learning to Generalize via Self-Supervised Prediction |
| 2019 | Evan G. Shelhamer | Computer Science PhD | Doctor of Philosophy | Local and Adaptive Image-to-Image Learning and Inference |
| 2019 | Lisa Anne M. Hendricks | Electrical Eng & Comp Sci PhD | Doctor of Philosophy | Visual Understanding through Natural Language |
| 2020 | Coline Devin | Computer Science PhD | Doctor of Philosophy | Compositionality and Modularity for Robot Learning |
| 2020 | Eric S. Tzeng | Computer Science PhD | Doctor of Philosophy | Adapting Across Domains by Aligning Representations and Images |
| 2020 | Sayna Ebrahimi | Mechanical Engineering PhD | Doctor of Philosophy | Mechanical Behavior of Materials at Multiscale Peridynamic Theory and Learning-based Approaches |

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|------|--------------------|-------------------------------|----------------------|---|
| 2020 | Ronghang Hu | Computer Science PhD | Doctor of Philosophy | Structured Models for Vision-and-Language Reasoning |
| 2020 | Xin Wang | Computer Science PhD | Doctor of Philosophy | The Design of Dynamic Neural Networks for Efficient Learning and Inference |
| 2020 | Samaneh Azadi | Computer Science PhD | Doctor of Philosophy | Visual Content Creation by Generative Adversarial Networks |
| 2021 | Vijay Govindarajan | Electrical Eng & Comp Sci PhD | Doctor of Philosophy | Adaptive Prediction and Planning for Safe and Effective Autonomous Vehicles |
| 2021 | Huazhe Xu | Computer Science PhD | Doctor of Philosophy | Learning Predictive Models for Efficient Policy Learning |
| 2022 | Zhuang Liu | Computer Science PhD | Doctor of Philosophy | Efficient and Scalable Neural Architectures for Visual Recognition |

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|---------|--------------------------------|-------------------------------|----------------------|---|
| 2022 | Dequan Wang | Computer Science PhD | Doctor of Philosophy | Learning to Generalize in Dynamic Environments |
| 2022 | Parsa Mahmoudieh | Computer Science PhD | Doctor of Philosophy | Multi-task Policy Learning with Minimal Human Supervision |
| 2023 | Shizhan Zhu | Computer Science PhD | Doctor of Philosophy | Implicit Modeling for 3D Applications |
| 2023 | Medhini Gulganjalli Narasimhan | Computer Science PhD | Doctor of Philosophy | Multimodal Long-Term Video Understanding |
| 2023 | Tete Xiao | Computer Science PhD | Doctor of Philosophy | Scalable Representations for Vision and Robotics |
| 2023 | Dong Huk S. Park | Computer Science PhD | Doctor of Philosophy | Vision and Language Understanding Through Generative Modeling |
| current | Xudong Wang | Electrical Eng & Comp Sci PhD | Doctor of Philosophy | |

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|---------|---------------------------------|-------------------------------|----------------------|--|
| current | Evonne Ng | Electrical Eng & Comp Sci PhD | Doctor of Philosophy | |
| current | Sheng Shen | Computer Science PhD | Doctor of Philosophy | |
| current | Marissa I. Ramirez de Chanlatte | Applied Science & Tech PhD | Doctor of Philosophy | |
| current | Olivia G. Watkins | Computer Science PhD | Doctor of Philosophy | |
| current | Suzie Petryk | Computer Science PhD | Doctor of Philosophy | |

VII. Committee Service

2001-2006 MIT EECS Graduate Admissions

2002 MIT LCS and AI lab Merger Committee

2010-2017 UC EECS Graduate Admissions

2018-present UC EECS Graduate Matters

2021-2023 UC EECS External Relations

2023-present UC Berkeley COI

VIII. Publications

Refereed Journal articles (through 2022; for updates see Google Scholar):

1. Darrell, T., & Wohn, K. (1990). Depth from focus using a pyramid architecture. *Pattern Recognition Letters*, 11(12), 787–796. [http://doi.org/10.1016/0167-8655\(90\)90032-W](http://doi.org/10.1016/0167-8655(90)90032-W)
2. Pentland, A., Scherock, S., Darrell, T., & Girod, B. (1994). Simple range cameras based on focal error. *Journal of the Optical Society of America A*, 11(11), 2925. <http://doi.org/10.1364/JOSAA.11.002925>
3. Darrell, T., & Pentland, A. P. (1995). Cooperative robust estimation using layers of support. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 17(5), 474–487. <http://doi.org/10.1109/34.391395>
4. Johnson, M. P., Maes, P., & Darrell, T. (1994). Evolving Visual Routines. *Artificial Life*, 1(4), 373–389. <http://doi.org/10.1162/artl.1994.1.4.373>
5. Darrell, T. J., Essa, I. A., & Pentland, A. P. (1996). Task-specific gesture analysis in real-time using interpolated views. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 18(12), 1236–1242. <http://doi.org/10.1109/34.546259>
6. Maes, P., Darrell, T., Blumberg, B., & Pentland, A. (1997). The ALIVE system: wireless, full-body interaction with autonomous agents. *Multimedia Systems*, 5(2), 105–112. <http://doi.org/10.1007/s005300050046>
7. Wren, C. R., Azarbayejani, A., Darrell, T., & Pentland, A. P. (1997). Pfinder: real-time tracking of the human body. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 19(7), 780–785. <http://doi.org/10.1109/34.598236>
8. Darrell, T., Gordon, G., Harville, M., & Woodfill, J. (2000). Integrated Person Tracking Using Stereo, Color, and Pattern Detection. *International Journal of Computer Vision*, 37(2), 175–185. <http://doi.org/10.1023/A:1008103604354>
9. Ackerman, M., Darrell, T., & Weitzner, D. J. (2001). Privacy in Context. *Human–Computer Interaction*, 16(2–4), 167–176. http://doi.org/10.1207/S15327051HCI16234_03
10. Darrell, T., & Covell, M. (2001). Correspondence with cumulative similarity transforms. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 23(2), 222–227. <http://doi.org/10.1109/34.908973>

11. Taycher, L., & Darrell, T. (2002). Range Segmentation Using Visibility Constraints. *International Journal of Computer Vision*, 47(1–3), 89–98.
<http://doi.org/10.1023/A:1014533505864>
12. Demirdjian, D., & Darrell, T. (2002). Using Multiple-Hypothesis Disparity Maps and Image Velocity for 3-D Motion Estimation. *International Journal of Computer Vision*, 47(1–3), 219–228. <http://doi.org/10.1023/A:1014502126337>
13. Bentley, F., Tollmar, K., Demirdjian, D., Koile, K., & Darrell, T. (2003). Perceptive presence. *IEEE Computer Graphics and Applications*, 23(5), 26–36.
<http://doi.org/10.1109/MCG.2003.1231175>
14. Fisher, J. W., & Darrell, T. (2004). Speaker association with signal-level audiovisual fusion. *IEEE Transactions on Multimedia*, 6(3), 406–413. <http://doi.org/10.1109/TMM.2004.827503>
15. Demirdjian, D., Ko, T., & Darrell, T. (2005). Untethered gesture acquisition and recognition for virtual world manipulation. *Virtual Reality*, 8(4), 222–230.
<http://doi.org/10.1007/s10055-005-0155-3>
16. Grauman, K., & Darrell, T. (2005a). Efficient image matching with distributions of local invariant features. In 2005 IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR'05) (Vol. 2, pp. 627–634 vol. 2).
<http://doi.org/10.1109/CVPR.2005.138>
17. Grauman, K., & Darrell, T. (2005b). The pyramid match kernel: discriminative classification with sets of image features. In Tenth IEEE International Conference on Computer Vision (ICCV'05) Volume 1 (Vol. 2, p. 1458–1465 Vol. 2). <http://doi.org/10.1109/ICCV.2005.239>
18. Christoudias, C. M., Morency, L.-P., & Darrell, T. (2006). Non-parametric and light-field deformable models. *Computer Vision and Image Understanding*, 104(1), 16–35.
<http://doi.org/10.1016/j.cviu.2006.06.001>
19. Wilson, K. W., & Darrell, T. (2006). Learning a Precedence Effect-Like Weighting Function for the Generalized Cross-Correlation Framework. *IEEE Transactions on Audio, Speech, and Language Processing*, 14(6), 2156–2164. <http://doi.org/10.1109/TASL.2006.872601>
20. Taycher, L., Fisher III, J. W., & Darrell, T. (2007). Combining object and feature dynamics in probabilistic tracking. *Computer Vision and Image Understanding*, 108(3), 243–260.
<http://doi.org/10.1016/j.cviu.2006.11.022>

21. Rahimi, A., Recht, B., & Darrell, T. (2007). Learning to Transform Time Series with a Few Examples. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 29(10), 1759–1775. <http://doi.org/10.1109/TPAMI.2007.1001>
22. Quattoni, A., Wang, S., Morency, L. P., Collins, M., & Darrell, T. (2007). Hidden Conditional Random Fields. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 29(10), 1848–1852. <http://doi.org/10.1109/TPAMI.2007.1124>
23. Morency, L.-P., Sidner, C., Lee, C., & Darrell, T. (2007). Head gestures for perceptual interfaces: The role of context in improving recognition. *Artificial Intelligence*, 171(8), 568–585. <http://doi.org/10.1016/j.artint.2007.04.003>
24. Rahimi, A., Morency, L.-P., & Darrell, T. (2008). Reducing drift in differential tracking. *Computer Vision and Image Understanding*, 109(2), 97–111. <http://doi.org/10.1016/j.cviu.2006.12.004>
25. Saenko, K., Livescu, K., Glass, J., & Darrell, T. (2009). Multistream Articulatory Feature-Based Models for Visual Speech Recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 31(9), 1700–1707. <http://doi.org/10.1109/TPAMI.2008.303>
26. Kapoor, A., Grauman, K., Urtasun, R., & Darrell, T. (2009). Gaussian Processes for Object Categorization. *International Journal of Computer Vision*, 88(2), 169–188. <http://doi.org/10.1007/s11263-009-0268-3>
27. Stone, Z., Zickler, T., & Darrell, T. (2010). Toward Large-Scale Face Recognition Using Social Network Context. *Proceedings of the IEEE*, 98(8), 1408–1415. <http://doi.org/10.1109/JPROC.2010.2044551>
28. Miller, S., Berg, J. van den, Fritz, M., Darrell, T., Goldberg, K., & Abbeel, P. (2012). A geometric approach to robotic laundry folding. *The International Journal of Robotics Research*, 31(2), 249–267. <http://doi.org/10.1177/0278364911430417>
29. Chung, S., Mario Christoudias, C., Darrell, T., Ziniel, S. I., & Kalish, L. A. (2012a). A Novel Image-based Tool to Reunite Children With Their Families After Disasters. *Academic Emergency Medicine*, 19(11), 1227–1234. <http://doi.org/10.1111/acem.12013>
30. Chakrabarti, A., Xiong, Y., Sun, B., Darrell, T., Scharstein, D., Zickler, T., & Saenko, K. (2014). Modeling Radiometric Uncertainty for Vision with Tone-Mapped Color Images. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 36(11), 2185–2198. <http://doi.org/10.1109/TPAMI.2014.2318713>

31. Chu, V., McMahon, I., Riano, L., McDonald, C. G., He, Q., Martinez Perez-Tejada, J., ... Kuchenbecker, K. J. (2015). Robotic learning of haptic adjectives through physical interaction. *Robotics and Autonomous Systems*, 63, Part 3, 279–292.
<http://doi.org/10.1016/j.robot.2014.09.021>
32. Darrell, T., Ferrari, V., Jurie, F., & Lepetit, V. (2015). Introduction to the CVIU Special Issue on "Parts and Attributes. *Comput. Vis. Image Underst.*, 138(C), 85–.
<http://doi.org/10.1016/j.cviu.2015.07.001>
33. Song, H. O., Girshick, R., Zickler, S., Geyer, C., Felzenszwalb, P., & Darrell, T. (2015). Generalized Sparselet Models for Real-Time Multiclass Object Recognition. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 37(5), 1001–1012.
<http://doi.org/10.1109/TPAMI.2014.2353631>
34. Girshick, R., Donahue, J., Darrell, T., & Malik, J. (2016). Region-Based Convolutional Networks for Accurate Object Detection and Segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 38(1), 142–158.
<http://doi.org/10.1109/TPAMI.2015.2437384>
35. Guadarrama, S., Rodner, E., Saenko, K., & Darrell, T. (2016). Understanding object descriptions in robotics by open-vocabulary object retrieval and detection. *The International Journal of Robotics Research*, 35(1–3), 265–280.
<http://doi.org/10.1177/0278364915602059>
36. Levine, S., Finn, C., Darrell, T., & Abbeel, P. (2016). End-to-End Training of Deep Visuomotor Policies. *Journal of Machine Learning Research*, 17, 1–40. Retrieved from
<http://www.jmlr.org/papers/volume17/15-522/15-522.pdf>
37. Shelhamer, E., Long, J., & Darrell, T. (2016). Fully Convolutional Networks for Semantic Segmentation. *IEEE Transactions on Pattern Analysis and Machine Intelligence*, PP(99), 1–1.
<http://doi.org/10.1109/TPAMI.2016.2572683>
38. Song, H. O., Fritz, M., Goehring, D., & Darrell, T. (2016). Learning to Detect Visual Grasp Affordance. *IEEE Transactions on Automation Science and Engineering*, 13(2), 798–809.
<http://doi.org/10.1109/TASE.2015.2396014>
39. Guadarrama, S., Rodner, E., Saenko, K., Darrell, T. (2016), Understanding object descriptions in robotics by open-vocabulary object retrieval and detection, *The International Journal of Robotics Research* 35 (1-3), 265-280. <https://doi.org/10.1177%2F0278364915602059>

40. Hoffman, J., Pathak, D., Tzeng, E., Long, J., Guadarrama, S., Darrell, T. (2015), Large scale visual recognition through adaptation using joint representation and multiple instance learning, *The Journal of Machine Learning Research* 17 (1), 4954-4984.
<http://www.jmlr.org/papers/v17/15-223.html>
41. Simon, M., Rodner, E., Darrell, T., Denzler, J. (2018), The whole is more than its parts? From explicit to implicit pose normalization, *IEEE TPAMI*, Published online (early access) 18 December 2018, 14pp. <https://doi.org/10.1109/TPAMI.2018.2885764>
42. Hu, H.-N., Yang, Y.-H., Fischer, T., Darrell, T., Yu, F., and Sun, M. (2022). Monocular quasi-dense 3d object tracking. *IEEE Transactions on Pattern Analysis and Machine Intelligence*. 8pp [\[link\]](#)
43. Liu, Z., Wang, H., Zhou, T., Shen, Z., Kang, B., Shelhamer, E., and Darrell, T. (2022). Exploring simple and transferable recognition-aware image processing. *IEEE Transactions on Pattern Analysis and Machine Intelligence*. 8pp. [\[link\]](#)
44. Ebrahimi, S., Petryk, S., Gokul, A., Gan, W., Gonzalez, J. E., Rohrbach, M., and Darrell, T. (2021). Remembering for the right reasons: Explanations reduce catastrophic forgetting. *Applied AI Letters*, 8pp, 2(4):e44. [\[link\]](#)
45. Hendricks, L. A., Rohrbach, A., Schiele, B., Darrell, T., and Akata, Z. (2021). Generating visual explanations with natural language. *Applied AI Letters*, 8pp, 2(4):e55. [\[link\]](#)
46. Kim, J., Rohrbach, A., Akata, Z., Moon, S., Misu, T., Chen, Y.-T., Darrell, T., and Canny, J. (2021). Toward explainable and advisable model for self-driving cars. *Applied AI Letters*, 8pp, 2(4):e56. [\[link\]](#)
47. Watkins, O., Huang, S., Frost, J., Bhatia, K., Weiner, E., Abbeel, P., Darrell, T., Plummer, B., Saenko, K., and Dragan, A. (2021). Explaining robot policies. *Applied AI Letters*, 8pp, 2(4):e52. [\[link\]](#)

Refereed Conference Papers (through 2022; for updates see Google Scholar)::

1. Batchelder, N., and Darrell, T. (1987), "Psf-fig - A Ditroff preprocessor for PostScript figures," *USENIX Conference Proceedings*, Phoenix, AZ, pp. 31-42, June 1987.

2. Darrell, T., & Worn, K. (1988). Pyramid based depth from focus. In *Computer Society Conference on Computer Vision and Pattern Recognition, 1988. Proceedings CVPR '88* (pp. 504–509). <http://doi.org/10.1109/CVPR.1988.196282>
3. Pentland, A., Darrell, T., Turk, M., & Huang, W. (1989). A simple, real-time range camera. In , *IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 1989. Proceedings CVPR '89* (pp. 256–261). <http://doi.org/10.1109/CVPR.1989.37858>
4. Darrell, T., Sclaroff, S., & Pentland, A. (1990). Segmentation by minimal description. In *Proceedings, Third International Conference on Computer Vision, 1990* (pp. 112–116). <http://doi.org/10.1109/ICCV.1990.139506>
5. Darrell, T., & Pentland, A. (1991). On the representation of occluded shapes. In *IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 1991. Proceedings CVPR '91* (pp. 728–729). <http://doi.org/10.1109/CVPR.1991.139802>
6. Darrell, T., & Pentland, A. (1991). Robust estimation of a multi-layered motion representation. In , *Proceedings of the IEEE Workshop on Visual Motion, 1991* (pp. 173–178). <http://doi.org/10.1109/WVM.1991.212810>
7. Darrell, T., & Pentland, A. (1992). Against Edges: Function Approximation with Multiple Support Maps. In J. E. Moody, S. J. Hanson, & R. P. Lippmann (Eds.), *Advances in Neural Information Processing Systems 4* (pp. 388–395). Morgan-Kaufmann. Retrieved from <http://papers.nips.cc/paper/462-against-edges-function-approximation-with-multiple-support-maps.pdf>
8. Darrell, T., & Pentland, A. (1993). Space-time gestures. In , *1993 IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 1993. Proceedings CVPR '93* (pp. 335–340). <http://doi.org/10.1109/CVPR.1993.341109>
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