

Stanford



Constantin Dory

Ph.D. Student in Electrical Engineering, admitted Summer 2016

Bio

HONORS AND AWARDS

- Microsoft Research PhD Fellowship, Microsoft (2019)
- Andreas Bechtolsheim Stanford Graduate Fellowship, Stanford University

EDUCATION AND CERTIFICATIONS

- M.Sc., Technical University of Munich , Condensed Matter Physics (2015)
- B.Sc., Technical University of Munich , Physics (2013)

STANFORD ADVISORS

- Jelena Vuckovic, Doctoral (Program)

LINKS

- LinkedIn: <https://www.linkedin.com/in/constantin-dory-631453b5/>

Research & Scholarship

LAB AFFILIATIONS

- Jelena Vuckovic (1/1/2015)

Publications

PUBLICATIONS

- **Characterization of optical and spin properties of single tin-vacancy centers in diamond nanopillars** *PHYSICAL REVIEW B*
Rugar, A. E., Dory, C., Sun, S., Vuckovic, J.
2019; 99 (20)
- **Inverse-designed diamond photonics.** *Nature communications*
Dory, C., Vercautse, D., Yang, K. Y., Sapra, N. V., Rugar, A. E., Sun, S., Lukin, D. M., Piggott, A. Y., Zhang, J. L., Radulaski, M., Lagoudakis, K. G., Su, L., Vu#kovi#, et al
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- **Cavity-Enhanced Raman Emission from a Single Color Center in a Solid.** *Physical review letters*
Sun, S., Zhang, J. L., Fischer, K. A., Burek, M. J., Dory, C., Lagoudakis, K. G., Tzeng, Y., Radulaski, M., Kelaita, Y., Safavi-Naeini, A., Shen, Z., Melosh, N. A., Chu, et al
2018; 121 (8): 083601
- **Strongly Cavity-Enhanced Spontaneous Emission from Silicon-Vacancy Centers in Diamond** *NANO LETTERS*

Zhang, J., Sun, S., Burek, M. J., Dory, C., Tzeng, Y., Fischer, K. A., Kelaita, Y., Lardakis, K. G., Radulaski, M., Shen, Z., Melosh, N. A., Chu, S., Loncar, et al
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- **On-Chip Architecture for Self-Homodyned Nonclassical Light** *PHYSICAL REVIEW APPLIED*
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- **On-Chip Architecture for Self-Homodyned Nonclassical Light** *PHYSICAL REVIEW APPLIED*
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- **Tuning the photon statistics of a strongly coupled nanophotonic system** *PHYSICAL REVIEW A*
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2017; 95 (2)
- **Observation of Mollow Triplets with Tunable Interactions in Double Lambda Systems of Individual Hole Spins** *PHYSICAL REVIEW LETTERS*
Lagoudakis, K. G., Fischer, K. A., Sarmiento, T., McMahon, P. L., Radulaski, M., Zhang, J. L., Kelaita, Y., Dory, C., Muller, K., Vuckovic, J.
2017; 118 (1)
- **Tuning the Photon Statistics of a Strongly Coupled Nanophotonic System** *PHYSICAL REVIEW A*
Dory, C., Fischer, K. A., Müller, K., Lagoudakis, K. G., Sarmiento, T., Rundquist, A., Zhang, J. L., Kelaita, Y., Sapra, N. V., Vuckovic, J.
2017; 95: 023804
- **Complete Coherent Control of Silicon-Vacancies in Diamond Nanopillars Containing Single Defect Centers**
Zhang, J., Lagoudakis, K. G., Tzeng, Y., Dory, C., Radulaski, M., Kelaita, Y., Fischer, K. A., Shen, Z., Melosh, N. A., Chu, S., Vuckovic, J., IEEE
IEEE.2017
- **Effects of Homodyne Interference on Jaynes-Cummings Emission for Single Photon Generation**
Fischer, K. A., Kelaita, Y. A., Sapra, N. V., Dory, C., Lagoudakis, K. G., Mueller, K., Vuckovic, J., IEEE
IEEE.2017
- **Tuning the Photon Statistics of a Strongly Coupled Nanophotonic System**
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IEEE.2017
- **Ultrafast coherent manipulation of trions in site-controlled nanowire quantum dots** *OPTICA*
Lagoudakis, K. G., McMahon, P. L., Dory, C., Fischer, K. A., Mueller, K., Borish, V., Dalacu, D., Poole, P. J., Reimer, M. E., Zwiller, V., Yamamoto, Y.,
Vuckovic, J.
2016; 3 (12): 1430-1435
- **Self-homodyned-enabled generation of indistinguishable photons** *OPTICA*
Mueller, K., Fischer, K. A., Dory, C., Sarmiento, T., Lagoudakis, K. G., Rundquist, A., Kelaita, Y. A., Vuckovic, J.
2016; 3 (9): 931-936
- **Complete Coherent Control of a Quantum Dot Strongly Coupled to a Nanocavity** *SCIENTIFIC REPORTS*
Dory, C., Fischer, K. A., Mueller, K., Lagoudakis, K. G., Sarmiento, T., Rundquist, A., Zhang, J. L., Kelaita, Y., Vuckovic, J.
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- **Self-homodyned measurement of a dynamic Mollow triplet in the solid state** *NATURE PHOTONICS*
Fischer, K. A., Mueller, K., Rundquist, A., Sarmiento, T., Piggott, A. Y., Kelaita, Y., Dory, C., Lagoudakis, K. G., Vuckovic, J.
2016; 10 (3): 163-?
- **Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers** *NANO LETTERS*
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2016; 16 (1): 212-217
- **Hybrid Group IV Nanophotonic Structures Incorporating Diamond Silicon-Vacancy Color Centers.** *Nano letters*
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- **Controlled tunneling-induced dephasing of Rabi rotations for high-fidelity hole spin initialization** *PHYSICAL REVIEW B*
Ardelt, P., Simmet, T., Mueller, K., Dory, C., Fischer, K. A., Bechtold, A., Kleinkauf, A., Riedl, H., Finley, J. J.
2015; 92 (11)
- **Ultrafast Polariton-Phonon Dynamics of Strongly Coupled Quantum Dot-Nanocavity Systems** *PHYSICAL REVIEW X*
Mueller, K., Fischer, K. A., Rundquist, A., Dory, C., Lagoudakis, K. G., Sarmiento, T., Kelaita, Y. A., Borish, V., Vuckovic, J.
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