Alexandre Goy

Current position	PhD student at Paris-Saclay University, France
Postal address	CentraleSupélec, Laboratoire MICS
	Bâtiment Bouygues, 3 rue Joliot Curie
	91190 Gif-sur-Yvette, France
Interests	Category theory, Automata, Coalgebra, Logic
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Google Scholar	Alexandre Goy
ResearchGate	Alexandre_Goy2
dblp	Alexandre Goy 0002

Education

PhD in Computer Science
Paris-Saclay University, France, 2018 - Present
Under the supervision of Marc Aiguier (MICS, Paris-Saclay University) and Daniela Petrişan (IRIF, Paris-Diderot University).

MSc in Engineering
CentraleSupélec, France, 2018
Thesis title : *Morpho-Logic and the Theorem of Łoś*, under the supervision of Marc Aiguier (MICS, Paris-Saclay University). Major in mathematics, 1st out of 95.

MSc in Mathematical Logic and Foundations of Computer Science
Paris-Diderot University, France, 2017
Thesis title: *Trace Semantics via Determinization for Probabilistic Transition Systems*, under the supervision of Jurriaan Rot (ICIS, Radboud University Nijmegen).

BSc in Mathematics
Paris-Saclay University, France, 2015

Publications

(1) Alexandre Goy, Daniela Petrişan. *Combining Probabilistic and Non-Deterministic Choice via Weak Distributive Laws.* LICS 2020, *to appear*.

(2) Alexandre Goy, Marc Aiguier, Isabelle Bloch. *From Structuring Elements to Structuring Neighborhood Systems.* ISMM 2019: 16-28.

(3) Alexandre Goy, Jurriaan Rot. *(In)finite Trace Equivalence of Probabilistic Transition Systems.* CMCS 2018: 100-121.

(4) Alexandre Goy. *Trace Semantics via Determinization for Probabilistic Transition Systems*, MSc thesis. CoRR abs/1802.09084, 2017.

Work Experience

Teaching Assistant
CentraleSupélec, France, 2017 - Present
For BSc/MSc in Engineering students.

- *Support in Programming*, 45h;
- *Algorithms*, 18h;
- *Theoretical Computer Science*, 27h;
- *Game Theory*, 12h;
- Volunteer Teaching Assistant for *Support in Mathematics*, 4h per week in 2017-2018.

Talks

- *From Structuring Elements to Structuring Neighborhood Systems*, ISMM, July 2019.
- *Dual Logic Concepts based on Mathematical Morphology in Stratified Institutions: Applications to Spatial Reasoning*, UNILOG, June 2018.
- *(In)finite Trace Equivalence of Probabilistic Transition Systems*, CMCS, April 2018.

Participation in events

- *International Symposium in Mathematical Morphology*, Saarbrücken, Germany, July 2019.
- *Topology, Algebra and Categories in Logic*, Nice, France, June 2019.
- *TACL Summer School*, Porquerolles, France, June 2019.
- *ForMal Summer School*, Cachan, France, June 2019.
- *Universal Logic*, Vichy, France, June 2018.
- *Coalgebraic Methods in Computer Science* (ETAPS Workshop), Thessaloniki, Greece, April 2018.

Other

Spoken Languages

French	Mother tongue
English	Fluent
German	Intermediate

Technical Skills

Programming languages	Python, OCaml, Prolog
Theorem prover	Coq
Other	LaTeX

May 8, 2020