


ALEKSEJ GAJ

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🌐 [aleksejalex](#) ◊  [ORCID](#)

EDUCATION

- Faculty of Nuclear Sciences and Physical Engineering,
Czech Technical University** *2022 – present*
Master of Science - Applied mathematics and stochastics
- Faculty of Nuclear Sciences and Physical Engineering,
Czech Technical University** *2017 – 2022*
Bachelor of Science - Applied mathematics and stochastics ✉
Topic of thesis: Implicit cooperation in multi-agent environment ✉
- Gymnázium Christiana Dopplera**✉, Prague *2009 – 2017*
Secondary education with focus on mathematics, physics and IT

EXPERIENCE

- Institute of Information Theory and Automation,
Czech Academy of Sciences** October 2014 - Present
Adaptive Systems Dept.
- Occasional work on the employment agreement

TECHNICAL SKILLS

- | | |
|------------------------------|---|
| Programming Languages | MATLAB, Python (NumPy, SciPy, SymPy, Pandas, PySide6), C++ |
| Typesetting | L ^A T _E X, HTML + CSS (basics), MS Office |
| IDEs | JetBrains PyCharm, QtCreator, TeXStudio |
| Tools | SVN, GitHub, Linux (basics) |

LANGUAGES

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|----------------|----------------|
| Czech | native speaker |
| English | B2 level |
| Russian | native speaker |
| French | B1 level |

AWARDS

- 2nd place on SVOČ 2022✉, section Artificial Intelligence
- International Young Physicist Tournament 2016 - 3rd place in Czech Republic

PUBLICATIONS

- [1] Aleksej Gaj. Implicit cooperation in multi-agent environment. Bachelor Thesis, 2022.
- [2] Tatiana V. Guy, Jitka Homolová, and Aleksej Gaj. Indirect dynamic negotiation in the nash demand game. *IEEE Access*, 10:105008–105021, 2022.
- [3] Irina Petrova, Aleksej Gaj, Damian Pochiecha, Maksim Shcherbina, Nataliya N. Makarova, and Alexej Bubnov. Design and self-assembling behaviour of comb-like stereoregular cycloliner methylosiloxane copolymers with chiral lactate groups. *Liquid Crystals*, 46(1):25–36, 2019.