Our Computer Science master’s programme offers you an education embedded within a stimulating and innovative research environment at an internationally renowned institute. Taught by leading researchers in their fields, you experience the scientific and societal impact of Computer Science in areas such as Artificial Intelligence and Machine Learning, Bioinformatics, Computing and Systems, Data Science, and Foundations of Computing.

In 2018 our master’s programme ranked highest on the list of Computer Science programmes in the Netherlands (Keuzegids Universiteiten 2018). Students particularly appreciate the flexibility and content of the programme, the assessment of their work, the embedding into research, and the scientific interaction with staff. Our two-year programme (120 EC) offers five challenging specialisations that cover Computer Science from its foundations to its most recent developments. You can choose from a wide range of course topics and electives to fit your own specific interests. Also, our close international collaborations with industry and other scientific disciplines enable you to conduct research inspired by applications of Computer Science.

Why study Computer Science at Leiden University?

- You can choose from a wide variety of in-house Computer Science courses to tailor your own study programme.
- You benefit from our close international collaborations with companies, academic research institutes, and government institutions.
- You are part of a research community with a strong international focus and highly approachable renowned staff.

Facts and figures

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<th>Language</th>
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<tr>
<td>Duration</td>
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<td>Degree</td>
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<td>Start</td>
<td>September or (except for Data Science) February</td>
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| Admission| Start September: 1 April non-EU/15 June EU  
            Start February: 15 October non-EU/1 December EU |
| Tuition Fee | € 2,078 EU/18,300 non-EU |

More information

For more information about the programme, entry requirements, admission procedures, tuition fees and scholarships, please visit our website: masters.universiteitleiden.nl/computerscience
## Computer Science: Specialisations and Programme Overview

### Specialisations
- Computer Science and Advanced Data Analytics
- Bioinformatics
- Data Science
- Science Communication & Society
- Education

### Tracks
- Advanced Computing and Systems
- Advanced Data Analytics
- Foundations of Computing
- Artificial Intelligence
- Bioinformatics
- Data Science
- Science Communication & Society
- Education

### Courses (6 EC)

<table>
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<tr>
<th>Course</th>
<th>Advanced Computing and Systems</th>
<th>Advanced Data Analytics</th>
<th>Foundations of Computing</th>
<th>Artificial Intelligence</th>
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<td>Advanced Statistical Computing (3 EC)</td>
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<td>Advances in Data Mining</td>
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<td>Advances in Model Checking</td>
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<td>Audio Processing and Indexing</td>
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<td>Bio-Modeling and Petri Nets</td>
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<td>Cloud Computing</td>
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<td>Complex Networks</td>
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<td>Computational Molecular Biology</td>
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<td>Concurrent Computing</td>
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<td>Coordination and Component Composition</td>
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<td>Databases and Data Mining</td>
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<td>Deep Learning and Neural Networks</td>
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<td>Evolutionary Algorithms</td>
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<td>Foundations of Software Testing</td>
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<td>Functional Genomics and Systems Biology</td>
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<td>Information Retrieval and Text Analytics</td>
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<td>Introduction to Data Science for Computer Science</td>
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<td>Linear &amp; Generalized Linear Models and Linear Algebra (9 EC)</td>
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<td>Metabolic Network Analysis</td>
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### Legend
- Mandatory
- Recommended
- Electives
- Not applicable