

MANUEL GUNDLACH

Curriculum Vitae

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Education

- 2003 – 2006 **Primary School**, *Grundschule an der Gänselieselstraße*, Munich.
- 2006 – 2014 **High School**, *Gymnasium Neubiberg*.
- 2014 **A Level (Abitur)**.
- since 2014 **Studies in Mathematics with minor subject Theoretical Physics**, *Ludwig Maximilian University of Munich (LMU)*.
- since 2014 **Scholarship by the German Academic Scholarship Foundation (Studienstiftung des deutschen Volkes)**.
- 2018 **BSc, Mathematics**, *Thesis on “Generators and Relations for the Torelli Group”, supervised by Prof. Thomas Vogel*, final grade 1.34 (very good).
- 2020 **(Pursued) MSc, Mathematics**.

Teaching

- since 2015 **Marker**, *German Computer Science Competition (Bundeswettbewerb Informatik)*.
- since 2014 **Coach**, *of the German Teams to the Olympiads in Informatics*, developing and managing tasks and competitions and training participants.
- 2015 and 2018 **Team Leader**, *Central European Olympiad in Informatics*.
- since 2015 **Organizer and Lecturer**, *Quod Erat Demonstrandum e.V.*, e.g. holding a course on number theory and cryptography.
- 2016 and 2017 **Board Member**, *Quod Erat Demonstrandum e.V.*.
- since 2015 **Marker**, *Bavarian Mathematical Olympiad*.
- since 2019 **Marker**, *German Mathematical Olympiad*.

- 2016 and 2017 **Tutor and Marker for Linear Algebra I + II**, *Ludwig Maximilian University of Munich*.
- 2018 – 2019 **Tutor for Calculus**, *Ludwig Maximilian University of Munich*.
- 2019 **Coach**, *of the LMU Team to the International Collegiate Programming Contest*.

Selected Competitions / Seminars / Awards

Computer Science

- 2010 – 2014 **German Computer Science Competition (Bundeswettbewerb Informatik)**, *2x price winner in the final rounds*.
- 2013 **Baltic Olympiad in Informatics**.
- 2013 **Central European Olympiad in Informatics**.
- 2014 **Baltic Olympiad in Informatics**, *Bronze medal*.
- 2014 **Central European Olympiad in Informatics**, *Silver medal*.
- 2014 **International Olympiad in Informatics (Taipei)**, *Bronze medal*.
- 2014 – 2018 **Regionals of the International Collegiate Programming Contest**.
- since 2015 **Google Code Jam**, *2x 3rd round*.
- 2015 **Bayan Programming Contest (Teheran)**.

Mathematics

- since 2009 **Seminars by the Quod Erat Demonstrandum e.V.**
- 2005 – 2014 **Mathematical Olympiad**, *final round*.
- 2009 – 2014 **German Mathematics Competition (Bundeswettbewerb Mathematik)**, *final round*.

Chemistry and Physics

- 2006 – 2008 **Science Competition (Experimente antworten)**, *9x price winner*.
- 2005 – 2012 **German Physics Competition (Bundeswettbewerb Physik)**, *4x final round*.
- 2010 – 2014 **Selection to the International Physics Olympiad**, *3x 3rd round*.
- 2010 – 2014 **Seminars by the Orpheus e.V.**

Other

- 2012 **German Students' Academy (Course on "Simulated Nature")**.
- 2014 **Short-time internship at the German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt, DLR)**, *work on a project using Pressure Sensitive Paint and on Particle Image Velocimetry*.
- 2018 **Workshop on Leadership by the German Academic Scholarship Foundation**.

Languages

- German First language
- English C2 — Fluent
- Italian A1 — Basic knowledge
- Latin Advanced Proficiency Certificate

Selected Technical Proficiencies

- Programming Languages C/C++, Python, Java, Mathematica
- Markup Languages LaTeX, HTML
- Others Linux, Git, Android Frameworks

Selected Software Projects

- CMS Contributions to Contest Management System, a distributed system for programming competitions
- Unidown Development of Unidown, an Android app for automated documents downloading
- Prass Development of Prass, an Android app for printing via an SSH connection

Other Interests

- Sports Bouldering, Skiing, Hiking
- Miscellaneous Interested in dramatic arts and in aerospace