

Dipl.-Ing.  
**Rafael Vrečar**  
BSc



- \* born November 10, 1997 in Vienna
- ☎ +43 664 942 24 89
- 🔗 <https://vrecar.eu/rafael>
- ✉ [rafael@vrecar.eu](mailto:rafael@vrecar.eu)

**Note:**

For confirmations, certificates, etc. please go to: <https://vrecar.eu/rafael>

## Education

since 2022	TU Wien (Vienna University of Technology) Doctoral program (UE 786 880) in Engineering Sciences: Computer Sciences	1040 Vienna
2020-2022	TU Wien (Vienna University of Technology) Master program (UE 066 935) Media & Human Centered Computing graduated with honors	1040 Vienna
2016-2020	TU Wien (Vienna University of Technology) Bachelor program (UE 033 534) Software & Information Engineering graduated with honors (additionally: Bachelor with Honors ( <a href="https://informatics.tuwien.ac.at/bachelor-with-honors/success/">https://informatics.tuwien.ac.at/bachelor-with-honors/success/</a> ))	1040 Vienna
2008-2016	BRG19 Vienna (Bundesrealgymnasium Wien 19) graduated with honors	1190 Vienna

## Additional Qualifications

Languages: German, English, Latin  
German: mother tongue  
English: B2  
Latin: intermediate Latin certificate

Trained peer mediator  
at BRG19 Vienna

## Research Foci

**Fields:** Human-Computer Interaction (HCI), Human-Robot Interaction (HRI), IT Security

**Details:** Interplay of security and safety wrt. cobots (likely PhD direction), emotion detection in HRI, security on Apple platforms, usable security, optimizing workflows without compromising security aspects

## Publications

- 2022 Increasing User Satisfaction by detecting Emotions in German-language Human-Robot Conversations with Q.bo One  
master's thesis at TU Wien (2022 Wien, Österreich)
- 2021 Using the Design of Adversarial Chatbots as a Means to Expose Computer Science Students to the Importance of Ethics and Responsible Design of AI Technologies (co-author)  
Human-Computer Interaction - INTERACT 2021 (2021)
- 2020 Konzeption und Implementierung eines „Student Relationship Management“-Systems  
bachelor's thesis at TU Wien (2020 Vienna, Austria)
- 2020 This is not the new normal: Studying during a pandemic (co-author)  
ACM Interactions (2020)
- 2018 Differential Privacy bei korrelierten Daten: Herausforderungen und das Konzept Pufferfish  
seminar paper for the lecture "SE Scientific Work" at TU Wien (2018 Vienna, Austria)
- 2016 Programme und Fallbeispiele zur automatisierten Extraktion von Daten aus Webseiten prescientific paper for the final exam, published by the Dr. Hans Riegel Stiftung (<https://www.hans-riegel-fachpreise.com/fileadmin/hans-riegel-fachpreise/Module/ausgezeichnete-arbeiten/hans-riegel-fachpreise-seminararbeit-wwa-2016-vreacar.pdf>) (2017 Bonn, Germany)

## Talks

- 2022 Lectures on iOS and macOS security  
within the courses »Mobile Security (<https://security.inso.tuwien.ac.at/mobile-security-2022s/>)« and »Security for Systems Engineering (<https://security.inso.tuwien.ac.at/secsyseng-2022s/>)« (TU Wien, ESSE workgroup)
- 2021 Lecture on macOS security  
within the course »Introduction to Security (<https://security.inso.tuwien.ac.at/introduction-to-security-2021w/>)« (TU Wien, ESSE workgroup)

## Awards

- 2021 Bachelor with Honors (TU Wien)  
successful completion of the TU Wien Bachelor with Honors (<https://informatics.tuwien.ac.at/bachelor-with-honors/success/>) program
- 2016 Dr. Hans Riegel Awards 2016, second place in Vienna  
for "Programme und Fallbeispiele zur automatisierten Extraktion von Daten aus Webseiten"

## Occupations at University

- since 2022 Project assistant at the Human-Computer Interaction Group (Institute of Visual Computing and Human-Centered Technology, TU Wien, E193-05)  
assisting in research, writing papers, and project administration
- since 2021 Project assistant (since 2022, before: Student Staff in Research and Administration) at the Center for Technology and Society (CTS, TU Wien, E065-01)  
assisting in the fields of research, documentation, and strategy planning

- since 2018 Permanent member of the ESSE workgroup core team (since 2022, before: Tutor) at the Institute of Information Systems Engineering (E194) of TU Wien  
holding lectures on security on Apple's platforms, assisting in the organization of the lectures, exercises, etc.
- 2018, 2019, 2020 & 2021 Tutor at the Institute of Logic and Computation (E192) of TU Wien  
assisting in the organization of the lecture "VU Formal Modelling" (2018, 2019, and 2020 summer semester)
- 2017, 2018, 2019, 2020 & 2021 Tutor at the Institute of Visual Computing and Human-Centered Technology (E193) of TU Wien  
among other things assisting in the organization of the lecture "VU Ways of Thinking in Informatics" (2017/18, 2018/19, 2019/20, and 2020/21 winter semester)
- 2018 & 2019 Mentor for beginners within the mentoring programme at TU Wien  
advice and support for a successful start of studies, including the organization of regular group meetings (2018/19 winter semester)

## Internships & further Occupations

- since March 2022 INSO Industrial Software GmbH  
assisting in teaching and research, involvement in scientific projects (primarily ESSE workgroup)
- February & March 2021 Internship at Research Industrial Systems Engineering GmbH  
development of wireframes and a React prototype with Material-UI for a web-based administration interface
- August 2019 Internship at Research Industrial Systems Engineering GmbH  
development of automated software tests in C++14, integration in continuous integration platform (GitLab)
- 2017 & 2018 Teacher at Lernquadrat  
individual training in informatics, mathematics, and German at branch 1060 Vienna, branch 1100 Vienna (Wienerberg) and branch 1120 Vienna
- 2015 & 2016 Office employee at Wiener Rauchfangkehrer  
one-month internship each year at Thomas Renner G. m. b. H. as an office employee, assisting with the computer maintenance
- 2014-2016 Creation of a new school website  
assisting with the conception, design, and creation of the new school website (<http://www.brg19.at>) of BRG19 Vienna
- 2012-2019 Editor of a football website  
writing and editing of articles, participation in web design and coordination of social media activities at [barcawelt.de](http://www.barcawelt.de) (<http://www.barcawelt.de/>)
- 2012 Büchereien Wien, Urban Loritz-Platz  
one-week internship at College 5

## Volunteering

- 2015 Caritative engagement  
assisting with the organization of Merry Charity, a charity event at BRG19 Vienna
- 2014-2016 Peer mediator at BRG19 Vienna  
helping students to solve their conflicts (see Qualifications)
- 2014/15 Students representative at BRG19 Vienna  
student's first representative in the school committee
- 2013 Voluntary work at BRG19 Vienna  
helping distributing the schoolbooks and organizing the school festival