

# Reinis Cirpons

## PhD Student



### Education

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- 2021/09-  
Present **DPhil in Mathematics**  
*University Of St Andrews - St Andrews, UK*  
• Expected to graduate 2025/09
- 2017/09-  
2021/05 **Master of Mathematics (hons.) 1st class**  
*University Of St Andrews - St Andrews, UK*  
• Dean's List for academic excellence in 2017/2018 and 2018/2019  
• President of the St Andrews Mathematics Society.
- 2011/09-  
2017/06 **High school diploma**  
*Riga State gymnasium no. 1 - Riga, LV*  
• The Latvian Republic prime minister's distinction for achievements in studies.

### Experience

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- 2021/09-  
Present **Tutor**  
*University Of St Andrews - St Andrews, UK*  
I tutor multiple small group tutorials each semester. I am also involved as a lead demonstrator for the computing components of various modules.
- 2019/06-  
Present **Contributor**  
*Digraphs* package and *libsemigroups* C++ library  
Have made many contributions to the *Digraphs* package and *libsemigroups* library as part of the team of contributors at the University of St Andrews. Gained valuable experience in Git, test driven development and learned a lot about the practical programming workflow.
- 2020/07-  
2022/08 **Junior Researcher**  
*Whitecrypton - Riga, LV*  
I work on whitebox cryptography and obfuscation. As part of my job I came up with novel practical solutions to many theoretically open questions. This involved researching the current state of the art, as well as prototyping possible solutions in Python, and finding flaws in existing implementations to strengthen the security of the product.
- 2020/06-  
2020/07 **Research Assistant**  
*University Of St Andrews - St Andrews, UK*  
Worked under prof. James Mitchell implementing a linear time algorithm for the word problem in free bands into the *Semigroups* package for GAP.
- 2019/06-  
2019/09 **Research Assistant**  
*University Of St Andrews - St Andrews, UK*  
Researched and tried improving the efficiency of oncogene detection studies. Learned a lot about the academic workflow.

Inquisitive problem solver with experience working in both an academic and corporate setting. Great at learning about large scale systems and improving them. Good at communicating complex concepts and solutions in a simple manner to a broad audience by way of writing as well as presentation.

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### Contact

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**Email**  
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**Github**  
[reinscirpons](https://github.com/reinscirpons)

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KY16 9SS,  
Scotland

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### Languages

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English ██████████  
Latvian ██████████  
Russian ██████████