

Board Game and Card Game from the Life of a Scientist

Michal Jex

Czech Technical University in Prague (CTU)

Joint work with

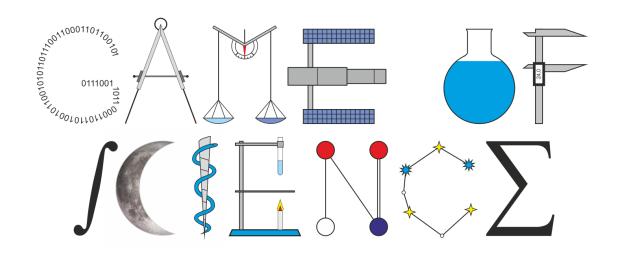
Lena Schorr

German Cancer Research Center (DKFZ)

Outline



- Motivation
- Overview of the board game
- Travel card version
- Evolution of the project
- Summary



Motivation



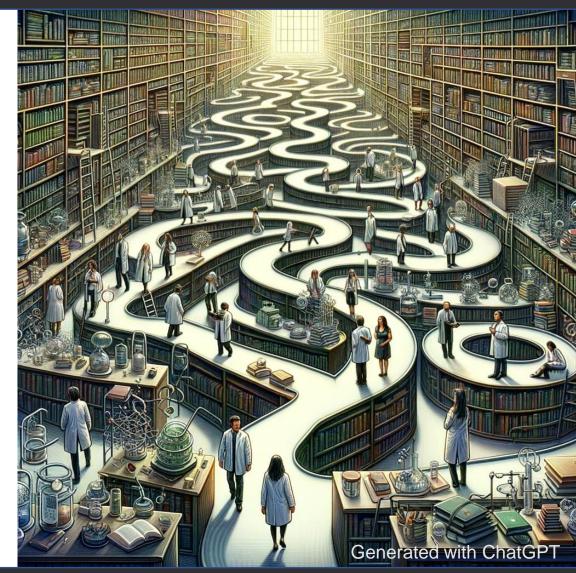
Improve trust in scientists

Board game

- Explain everyday life of a researcher
- Target group: board game enthusiasts, university students, researchers

Card game

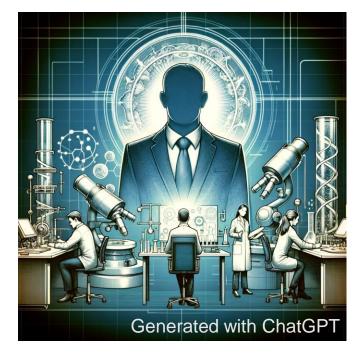
- Educational tool, various topics
- Shorter and quicker variant
- Target group: high school students, pupils



Board-game



You are a researcher starting your research group/lab



Build your own lab and publish!



Board-game



- 12 rounds (years)
- Limited resources
 - Time
 - Knowledge
 - Money
- Victory points for publications
- Element of randomness
- Modular design
 - Preprint board
 - Cooperative goal
 - Random events



Board-game



Actions

- Do research
- Hire staff
- Collect results
- Publish
- Buy equipment
- Read up
- Teach
- Apply for a grant



Card game





Sci-Me! travel version



Sci-Me! Card game



Main features

- Based on the core aspect of the board game
- About scientific publishing
- Educational tool
- Quick and short
- Multiple topics with same rules

Goal of the game

Be first player with 3 publications

Summary of possible actions

Actions

Investigate

Draw 2 cards from the draw pile. If there are not enough cards, shuffle the discarded cards and add them to the draw pile.



Study

Take the top card from the discard pile and place it in your expression.

Write

Put/replace/reorder up to 5 cards in your expression using cards from your hand.

Publish

Discard 2 cards from the draw pile and compare the sum of their difficulty values and your victory points with the number of cards in your expression.

$$1 + 3 + your VPs \le 1 + 1 + 1 + 1 + 1 = 6$$
 cards

If the number of cards in your expression is larger or equal, publish!

Collaborate

Agree with another player on combining your expressions and try to publish them together. In the case of success, players are awarded $\frac{1}{2}$ VP.

Sci-Me! Card game - variants

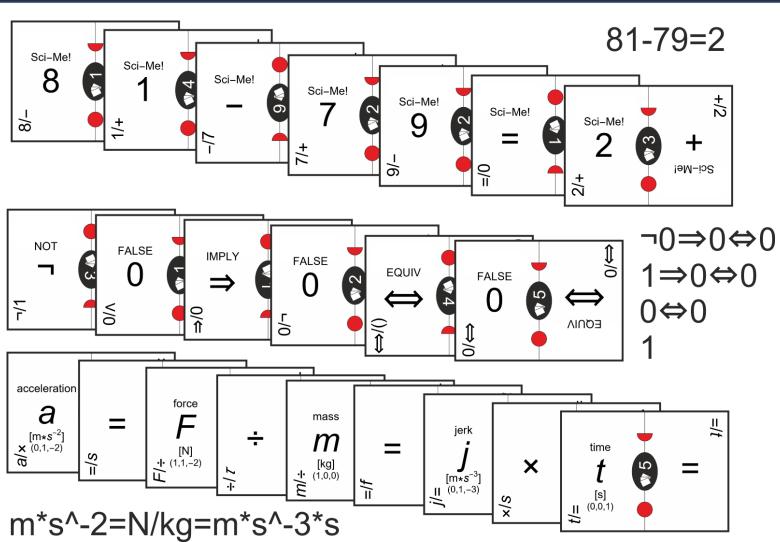


Current versions

- Arithmetic
- Logic
- Mechanics

Under development

- Optics
- Quantum computing
- Symmetry



Evolution of Sci-Me!

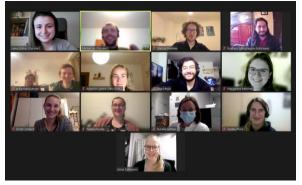


- September 2021 Online Sciathon 2021 honourable mention
 - initial concept
- December 2021 First digital prototype
- 2022 online playtesting
- Spring 2023 grant from British Council
 - production of first physical prototypes
- October 2023 presentation at Spiel
- December 2023 testing of card version at Life Science Lab (DKFZ-Heidelberg)
- June 2024 card game published for Heidelberg Laureate Forum Foundation

Evolution of Sci-Me!



Online Testplays



Physical Testplays



Testplay with the Life Science Lab Heidelberg



CTU events for elementary schools



Lectures





Thank you for your attention!



- Contact us:
 - michal.jex@fjfi.cvut.cz
 - lena.schorr@dkfz-heidelberg.de
 - https://sci-me.jimdosite.com/
- Link to digital prototype:

