

Brian Schutter

Futurist, Author, Scientist, Human

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SUMMARY

I am a creative writer and research scientist with a passion for making characters, worlds, and stories that pop off the page. I utilize a strong STEM background to enrich my writing with real-world research and knowledge from experts around the world. Authors of science fiction (e.g., Asimov, Jemisin) and non-fiction (e.g., Sagan, Feynman) inspired me to write and explore at an early age. I am passionate about inspiring others to find their own creative voice and arming them with the knowledge find their own path!

SKILLS

- 5+ Years of Professional Writing
- Unity, Photoshop, & Autodesk Maya
- Python, Mathematica, C#, C++, & Matlab
- 5+ Years of Academic Research
- Designed 10+ maps in Starcraft & Minecraft
- Graduate-Level Physics & Mathematics

WORK & RESEARCH EXPERIENCE

Freelance Writer, Upwork

Baltimore, MD (04/2019 to Present)

- Wrote lesson plans for middle school STEM education lessons
- Contracted to create characters for multiple webcomics and fan works

Self-Employed, Novelist

Baltimore, MD (06/2014 to Present)

- Wrote five short fictional works commissioned by various patrons
- Researched and wrote two novels, one science fiction and one non-fiction (both pending publication)
- Edited and co-wrote webcomic, Inkbound, weekly

Research Scientist, 2D Materials Synthesis & Characterization

Cornell University (09/2013 to 06/2018)

- Researched, synthesized, & characterized cutting edge two-dimensional graphene-like materials
- Trained and mentored multiple graduate students in materials synthesis, characterization, and good lab music
- Coded software for data analysis and experimentation with Python and C++
- Taught a class on wave physics to advanced students at Howard University's Middle School

EDUCATION

Master of Science, Materials Science and Engineering

2018

Cornell University

Specialization in Electronic Materials and Microelectronic Devices

GPA: 3.80

B.S., Materials Science and Engineering

2012

University of California, Berkeley

GPA: 3.70

ACADEMIC PUBLICATIONS

Kwak, Joon Young; Hwang, Jeonghyun; **Schutter, Brian**; Spencer, Michael, et. al. (2014). "Electrical Characteristics of Multilayer MoS₂ FET's with MoS₂/Graphene Hetero-Junction Contacts." *Nano Letters*. 14. 10.1021/nl5015316.

Kwak, Joon Young & Hwang, Jeonghyun & Calderon, Brian & Alsaman, Hussain & **Schutter, Brian** & Spencer, Michael. (2015). "Photothermal electric effect of multilayer MoS₂-graphene heterojunction." 121-122. 10.1109/DRC.2015.7175585.

PROFESSIONAL PRESENTATIONS

Electronic Materials Conference 2016, Oral Presentation

[June 2016]

North American Molecular Beam Epitaxy Conference 2016, Oral Presentation

[September 2016]

Electronic Materials Conference 2017. Oral Presentation

[June 2017]