Sasha Bakker

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I am a Physics & Statistics student looking for a summer 2020
internship involving computational data analysis.

Education

2017–2021	**(BS) Physics and Statistics**, *University of Massachusetts, Amherst, MA. CGPA 3.76*.
2017	**Diploma**, *Mascoma Valley Regional High School, Canaan, NH*.

Coursework

Physics	Computational physics, Quantum computing, Quantum mechanics, Techniques of theoretical physics
Lab and Physics	Mechanics, Thermodynamics and waves, Electricity and magnetism, Modern physics
Mathematics	Statistics, Regression analysis, Ordinary differential equations, Multivariate calculus, Linear algebra

Technical Skills

Programming	Python, Google Apps Script, C, Java, AutoHotKey
Software	Igor Pro, Capstone, Microsoft Office
Hardware	Arduino Uno, Sensors (light, temperature, position), Geiger counter, Scintillation detector, Interferometer, Franck-Hertz Apparatus, Millikan Oil-Drop Apparatus, Voltmeter
Editing	LaTeX, Adobe Photoshop, ImageMagick, ImageJ
Collaboration	UMass Amherst 2019 Conference for Undergraduate Women in Physics board member
Teamwork	Worked with lab partners and learned mechanics in teams of 2-3 students

Work and Research Experience

January 2019-Present	Researching the time dependence of a soft elastic sheet at a viscous interface. **Condensed matter physics research group.** *Supervised by Prof. Narayanan Menon.*
May-August 2019	**Printhead Test Lab Intern.** Designed a passive baffle for high-standoff printing applications. Executed various product and print tests, analyzed and communicated the results. *Fujifilm Dimatix, Lebanon, NH.*
January-May 2019	Troubleshooted classwork and provided individualized feedback to students as an Undergraduate Teacher's Assistant for **Computational Physics (python)**. Held office hours outside of class. *Supervised by Prof. Donald Candela.*
September-December 2018	Mentored 9 freshman physics and astronomy students in solving Newtonian mechanics problems as an **Undergraduate Teacher's Assistant** for Physics I - Mechanics. *Supervised by Prof. Jennifer Ross.*
May-August 2018	**Printhead Test Lab Intern.** Scripted a printhead test submission system in Google Sheets. Consisely documented standard jetting performance testing procedures. *Fujifilm Dimatix, Lebanon, NH.*