

# Jonathan CORNET

## PERSONAL DATA

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PLACE AND DATE OF BIRTH: Bellingham, Washington | 13 July 1992  
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## EDUCATION

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JUNE 2017 Bachelor of Science in PHYSICS, **Western Washington University**, Bellingham

JUNE 2017 Bachelor of Arts in CHINESE LANGUAGE, **Western Washington University**, Bellingham

## LANGUAGES

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ENGLISH: Mother Tongue  
FRENCH: Conversationally Fluent  
CHINESE: Basic Knowledge  
SPANISH: Basic Knowledge

## COMPUTER LANGUAGES, FRAMEWORKS, SOFTWARE, AND EDITORS

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Basic Knowledge Languages: C++, Java,  $\text{\LaTeX}$   
Intermediate Knowledge Languages: PYTHON, JavaScript, CSS, HTML, FORTRAN, C#, Kotlin  
Frameworks: React  
Database: MongoDB, SQL  
Graphics Editor: Adobe XD, Figma, Aseprite  
Game Engine: Unity

## WORK EXPERIENCE

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MARCH 2020 - CURRENT	Software Developer at CONVEYOR DYNAMICS, INC., Bellingham <i>Mechanical Engineering Company</i> Refactored and optimized FORTRAN code using modern standards and logic norms, developed new software using FORTRAN and C# for various purposes related to improving and testing company software.
OCTOBER 2017 - MARCH 2020	Sabbatical in Paris <i>Language Learning Sabbatical</i> Spent time in Paris improving French language skill and working various jobs, including bartending and tour guiding.
JANUARY - APRIL 2015-2016	Laboratory Teaching Assistant at WESTERN WASHINGTON UNIVERSITY, <i>University</i> Taught and hosted the required laboratory portion of entry level Physics courses. Showed students how to use lab equipment, ensured students followed the lab manuals and understood the material. Taught and reinforced scientific ideas and methods. Topics covered included various types of motion, thermodynamics, electricity and magnetism.

## VOLUNTEER EXPERIENCE

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SEPT-JUNE 2014-2017	<b>Teaching Aid for SEDRO-WOOLLEY PUBLIC SCHOOLS</b> <i>Compass 2 Campus Program through Western Washington University</i> Worked with children ages 10 to 14 by providing support in class. Roles included helping teacher directly, working with individual students, or working with small groups of students. Helped with school work, staying focused in class, and providing a positive role model to inspire students to attend college.
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## RESEARCH EXPERIENCE

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ACADEMIC SCHOOL YEAR 2016-2017	<b>Crystal Growth Research for DR. DAVID PATRICK</b> <i>Material Science at Western Washington University</i> Polycrystalline thin films of organic semiconductors can be studied via kinetic Monte Carlo (KMC) simulations. Understanding and controlling crystallization in such systems is important for applications such as solar cells, flexible displays, and lighting applications. KMC simulations were used to investigate the main kinetic parameters affecting the crystal growth.
ACADEMIC SCHOOL YEAR 2015 - 2016	<b>Stellar Flare Research for DR. JAMES R. A. DAVENPORT</b> <i>Astronomy at Western Washington University</i> Using data collected by the Kepler space observatory, patterns in a star's light intensity reveal important information about the physical processes present on the star. One such process, known as stellar flares, can be studied to infer information about a star's age, activity, and evolution.

## REFERENCES

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ANDY JENNINGS jennings@conveyor-dynamics.com +1 360 296 1958	<b>President of CONVEYOR DYNAMICS, INC.</b> Current Employer
DR. TAKELE SEDA Takele.Seda@wwu.edu +1 360 650 3838	<b>Professor at WESTERN WASHINGTON UNIVERSITY</b> Former professor for many Physics courses.
DR. JAMES R. A. DAVENPORT James.Davenport@wwu.edu	<b>Postdoctoral Fellow at WESTERN WASHINGTON UNIVERSITY</b> Former research advisor.