

# Christian Paulsen, Ph.D.

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## Qualifications Profile

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Highly motivated and detail-oriented candidate with a recent Doctorate degree in Materials Science and Engineering and a strong metallurgy background and interest in data analysis, data visualization, presenting and reporting.

- **Research & Analysis:** Ability to analyze material data and test results to determine the causes of problems and develop solutions.
- **Metallography:** Expert in evaluating materials and microstructures from images and data generated using optical microscope, SEM, EDS, XRF, EBSD and other metallographic techniques.
- **Key Strengths:** Excellent interpersonal skills; ability to get along with diverse personalities while exhibiting versatility, adaptability, and professional attitude.

## Education

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### Professional Certificate in Applied Data Science

Mar 2021

Dartmouth College — Hanover, NH

- Capstone project: *Future electric vehicle sales in CA and NY*

### Doctorate Degree in Materials Science and engineering

Nov 2019

Norwegian University of Science and Technology (NTNU) — Trondheim, Norway

- Thesis: *Experimental Characterization of Two-Phase Steels*
- Exchange Program at Columbia University, New York, NY (2017-2018)

### Master's Degree in Materials Science and engineering

Jun 2015

NTNU — Trondheim, Norway

- Thesis: *Recrystallisation Behavior in Extruded Profiles of Non-Dispersoid Containing Al-Mg-Si Alloys*
- Exchange Program at Worcester Polytechnic Institute (WPI), Worcester, MA (2013-2014)

## Technical Skills and Certifications

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**Materials Science:** Characterization, mechanical testing, image analysis, fractography, microscopy  
**Programming:** Python (NumPy, Pandas, Matplotlib, Seaborn, Plotly, SciPy, Sklearn), MATLAB, Excel, SQL  
**Certifications:** Python for Data Analysis and Visualization, Python for Data Science and Machine Learning Bootcamp, Python for Financial Analysis and Algorithmic Trading, The Complete SQL Bootcamp

## Work Experience

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### Vartest Laboratories — New York, NY

Oct 2020 – Present

**Engineer.** Investigating textiles for certification purposes and failure analysis. The main tool is using an SEM combined with EDS/XRF for element identification. Writing reports detailing findings.

- Failure investigation, presenting data and writing reports

### Begell House — New York, NY

Jan 2020 – Present

**Managing Editor.** Read content, identify errors, collaborate with writers, verify facts, contact writer sources, rewrite copy, create page layouts, comply with writing standards as well as style guidelines, and suggest changes to ensure compelling and targeted content for the website. Motivate and lead editorial support teams to ensure on-time and top-quality products. Also performed analysis on Begell House article submissions and subscriptions.

- Managed, updated, and revised articles on Thermopedia by effectively coordinating IT department, designers, authors, and senior management.
- Writing reports on Begell House future possibilities based on analysis of journal submission data and journal subscription data.

### NTNU — Trondheim, Norway

Jan 2015 – Jun 2017

**Research Assistant.** Oversaw laboratory operations, reviewed students' performance, and grade reports within the class of Experimental Materials, Chemistry and Electrochemistry. This is a SEM laboratory course where students are learning to use the microscope for failure analysis, particle size distribution and EBSD analysis.

- Oversaw the laboratory work, instructed students in software for data extraction and data presentation and grading lab reports.

### Other

**Additional Experience** as an Intern at Shell, Tananger, Norway, as a Caster at Elkem, Bremanger, Norway and as a Bank teller at SPV, Rong, Norway