

# Kelsey Kaplan

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## Research Interests

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Research **Computer Vision, Deep Learning, sea ice**

Other **Long distance hiking and trail running expeditions, travelling**

## Education

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Sep 2020 - present **1st Year PhD Student in Computer & Information Sciences**, University of Delaware  
Focus: computer vision and deep learning implementations for drift and deformation analysis of sea ice · Current GPA: 4.0

Dec 2018 - Jan 2019 **React Front End Web Development Course**, Zaio [Online]

Feb 2015 - Nov 2019 **BSc. Bachelor of Science in Electrical and Computer Engineering**, University of Cape Town  
Honours thesis topic: "Stereo system design for ship-based acquisition in Antarctica" · Final GPA: 3.69

Mar 2015 - May 2015 **Web Development Course**, University of Cape Town [Online]

Feb 2012 - Nov 2014 **BAS. Bachelor of Architectural Studies**, University of Cape Town

Sep 2011 - Oct 2011 **B1 French Course**, EF, Nice, France

Jan 2007 - Dec 2010 **National Senior Certificate**, Bridge House School, Franschhoek  
7 Distinctions · Top 1% for Visual Arts · First Team Waterpolo

## Experience

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Oct 2020 - present **Research Assistant**, VIMS Lab, University of Delaware

Feb 2019 - Feb 2020 **Front End Web Developer**, ZAIO, Cape Town

Jan 2018 - Mar 2018 **Electrical Engineering Intern**, ThingKing, Cape Town

Jan 2015 - Nov 2015 **Mathematics & Science Tutor**, Cape Town

Feb 2014 - Nov 2015 **Waitress**, Royale Eatery, Cape Town

Feb 2014 - Jun 2014 **Assistant Editor Intern**, What's On In Cape Town, Cape Town

Jun 2013 - Jul 2013 **Architectural Intern**, Indigo Architects, Cape Town

Apr 2008 - Aug 2008 **Round Square Exchange Student**, Louisenlund School, Germany

## Field Work

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Oct 2019 - Nov 2019 (6 weeks) **SCALE Antarctic Expedition**, S.A. Agulhas II  
Sea Ice Team member. Responsibilities included ice core extraction, sea ice observations, buoy troubleshooting and deployment and operation and maintenance of stereo vision system developed for honours thesis.

## Awards & Achievements

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2020 **Siemens Award** for best final project, University of Cape Town

2020 **First Class Honours** in BSc (Eng), University of Cape Town

2019 **Golden Key invitation** for students in the top 15% of their course, University of Cape Town

2019 **National Research Foundation Grant** for sea ice related research, University of Cape Town

2016 - 2018 **Dean's Merit List**, University of Cape Town

2018 **Class Medal** for SLL1073F, awarded to top performing student, University of Cape Town

2014 **Automatic acceptance into Architecture Honours**, awarded to the top 20 students, University of Cape Town

## Skills

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Languages Afrikaans · French & Spanish (basic)

Programming Python · Java · JavaScript · HTML · CSS · Matlab · C++ · LaTeX

Software Microsoft Office · Autodesk AutoCAD · Sketchup · SolidWorks · Adobe Photoshop · Android Studio

Design Web design · Model building · Drafting & schematics · Design thinking (D-School)