

# Jasmine Dinari

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## EDUCATION

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| <b>University of California, Los Angeles</b>   PhD student in Chemical and Biomolecular Engineering                                                                                                                                                                                                                                                                                                                                                                                       | 2023 - 2028     |
| <ul style="list-style-type: none"><li>Relevant coursework, achieved with grade A or higher:<ul style="list-style-type: none"><li>Thermodynamics   Chemical Reaction Engineering   Mass Transfer   Theory of Applied Mathematics   Surface Engineering</li></ul></li></ul>                                                                                                                                                                                                                 | GPA: 4.0/4.0    |
| <b>University of Illinois at Urbana Champaign</b>   B.S. in Nuclear, Plasma and Radiological Engineering                                                                                                                                                                                                                                                                                                                                                                                  | 2019 - May 2023 |
| <ul style="list-style-type: none"><li>Minors: Mathematics, Physics</li><li>James Scholar   Dean's List   Clare Booth Luce Research Scholar   Tau Beta Pi</li><li>Relevant coursework, achieved with grade A or higher:<ul style="list-style-type: none"><li>Electromagnetic Fields   Classical Mechanics   Thermo/Fluid Dynamics   Methods of Applied Statistics   Modeling Nuclear Energy System   Interactions of Radiation with Matter   Plasma and Fusion Science</li></ul></li></ul> | GPA: 3.8/4.0    |

## EXPERIENCE

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| <b>Graduate Research Assistant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sept 2023 – Present  |
| Sautet Lab   University of California   Advisor: Dr. Philippe Sautet <ul style="list-style-type: none"><li>Modeled plasma assisted atomic layer etching of metals, in collaboration with Dr. Jane Chang group in CBE.</li><li>Plasma thermal etching explores a self-limiting process, the mechanism of which is currently unknown and is the focus of this project. Nickel based alloys are analyzed in combination with different gas phase molecules using DFT to determine the specific binding and removal mechanisms.</li></ul>                                                                                                                                                                                                                               |                      |
| <b>Undergraduate Research Assistant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Jan 2021 – June 2023 |
| SPEC Lab   University of Illinois   Advisor: Dr. Mohan Sankaran <ul style="list-style-type: none"><li>Analyzed plasma-based degradation of PFAS in water, in collaboration with ChBE department at UIUC.</li><li><u>Publication</u>: Üner et al., 'Rate, Efficiency, and Mechanisms of Electrochemical Perfluorooctanoic Acid Degradation with Boron-Doped Diamond and Plasma Electrodes'. Langmuir, 15 July 2022. DOI: 10.1021/acs.langmuir.2c01227.</li><li><u>Awards</u>: Best Paper Award at ANS 2022 Student Conference, Clare Boothe Luce Research Scholarship 2021&amp;2022, UIUC NPRES 2022 Outstanding Undergrad Research Award.</li><li><u>Presentations</u>: AVS 68 Symposium, ANS 2022 Student Conference, UIUC 2022 Undergraduate Symposium.</li></ul> |                      |
| <b>Lead Engineering Learning Assistant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | June 2021 – May 2023 |
| University of Illinois at Urbana-Champaign <ul style="list-style-type: none"><li>Taught ENG100 twice, a semester-long interactive class on a biweekly basis with 18 first year NPRES students.</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                      |
| <b>Undergraduate Library Assistant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | June 2021 – May 2023 |
| Grainger Engineering Library   University of Illinois at Urbana-Champaign                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                      |

## LEADERSHIP AND VOLUNTEERING

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| <b>Graduate Student Advisory Committee</b>   UCLA                                                                                                                                      | 2023 - Present |
| <b>Women in Nuclear</b>   UIUC                                                                                                                                                         | 2019 - 2023    |
| President   2020 – 2023 <ul style="list-style-type: none"><li>Awarded Catherine Pritchard Scholarship for student involvement. Served as UG representation on DEI committee.</li></ul> |                |
| <b>Tau Beta Pi</b> , Engineering Honors Society   UIUC                                                                                                                                 | 2021 - Present |
| <b>American Nuclear Society</b>   UIUC                                                                                                                                                 | 2019 - Present |
| <b>USA Girl Scouts</b>                                                                                                                                                                 | 2011 - Present |
| <ul style="list-style-type: none"><li>Earned Gold Award and Silver Award, as well as Gold Presidential Awards for leadership and volunteering.</li></ul>                               |                |

## LANGUAGES AND TECHNICAL SKILLS

English (Native), French (Native), Spanish (Advanced), Mandarin (Intermediate) | DFT | VASP | Python | R | SQL | Origin | MS Office