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for the degree Doctor of Philosophy/Education ***(select one)***

in

Degree title (major)

by

Name

Committee in charge:

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Professor First Last, Chair/Co-Chair ***(if applicable. Select correct title)***

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I would like to acknowledge Professor Eta Theta for their support as the chair of my committee. Through multiple drafts and many long nights, their guidance has proved to be invaluable.

Chapter 2, in full, is a reprint of the material as it appears in Numerical Grid Generational in Computational Fluid Mechanics. Smith, Laura; Smith, Jane D., Pineridge Press, 2019. The dissertation author was the primary investigator and author of this paper.

Chapter 3, in part, has been submitted for publication of the material as it may appear in Education Mechanics, 2017, Smith, Laura; Smith, Jane D., Trailor Press, 2017. The dissertation author was the primary researcher and author of this paper.

Chapter 5, in part is currently being prepared for submission for publication of the material. Smith, Laura; Smith, Jane D. The dissertation author was the primary researcher and author of this material.

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2018 Master of Arts/Science ***(select one)*** in Degree title (major), School ***(if applicable)***

2025 Doctor of Philosophy/Education ***(select one)*** in Degree title (major), University of California San Diego/San Diego State University/California State University San Marcos/University of California, Irvine ***(keep UCSD/select one)***

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## ABSTRACT OF THE DISSERTATION

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by

Name

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University of California San Diego, 2025

San Diego State University/California State University San Marcos/University of California, Irvine ***(select one)***, 2025

Professor First Last, Chair/Co-Chair ***(select correct title)***
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### Acknowledgements

Chapter 2, in full, is a reprint of the material as it appears in Numerical Grid Generational in Computational Fluid Mechanics. Smith, Laura; Smith, Jane D., Pineridge Press, 2019. The dissertation author was the primary investigator and author of this paper.

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Foo, L.C., 2013. Purification of rat and mouse astrocytes by immunopanning. Cold Spring Harb.Protoc. 8, 421–432

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