

Dissertation/Thesis Submission & Degree Filing Webinar

Winter 2026

Agenda

- 1 Introductions – GEPA Academic Affairs Advisors
- 2 Writing Hub
- 3 Degree Filing Process
- 4 Publishing Dissertation/Thesis in ProQuest
- 5 Final Degree Paperwork
- 6 Dissertation & Thesis Formatting Manual
- 7 Co-Author Permission Letters

GEPA Academic Affairs Advisors

Eliese Maxwell, PhD Advisor (all other programs)

Sara Miceli, Professional Degree & Joint Doctoral Program Advisor;
PHD Advisor (Biostats, BMS, Neuro, Rady); **Master's Advisor** (Biostats, DSC, Rady)

Sinai Cota, Master's Advisor (MATS, MAE)

Kelsey Darwin, Master's Advisor (ASTR, BIOL, BMS, ECE, MATH, PHYS, SE & SIO);
PHD Advisor (SE)

Karen Villavicencio, Master's Advisor (BENG, BINF, CHEM, CENG, CSE, NENG, Neuro, School of Arts & Humanities, School of Social Sciences); **PHD Advisor** (CENG, NENG)

Get Writing Help From the Writing Hub!

Open to enrolled graduate students.

Free one-on-one writing consultation appointments.

- 30-60 minute appointments, in person or virtual
- Can work with any project, at any stage
- Supportive, in-depth conversations about your writing
 - Actionable feedback on clarity, organization, coherence, etc.
 - Not available for format-checking or proofreading, will focus on the writing process

Additional services: Dissertation Writing Circles (every Tuesday, virtual/in-person)

writinghub.ucsd.edu/what-we-do/graduate-services.html



Degree Filing Process

Overview: Actions for Filing Degree

Actions BEFORE defense	Actions AFTER defense
<ul style="list-style-type: none"> Schedule defense date 	<ul style="list-style-type: none"> Finalize content & formatting of dissertation/thesis
<ul style="list-style-type: none"> Review/submit committee members to department 	<ul style="list-style-type: none"> Submit co-author permission letters to co-author permission letter form in Quali
<ul style="list-style-type: none"> Submit File for Degree Form in Quali 	<ul style="list-style-type: none"> Fill out dissertation/thesis release form & upload to ProQuest
<ul style="list-style-type: none"> Start collecting co-author permission letters (and/or turn them in if all are collected) 	<ul style="list-style-type: none"> Complete entire ProQuest submission
<ul style="list-style-type: none"> Request formatting pre-check with GEPA 	<ul style="list-style-type: none"> SDSU JDP students only: Send the signature page to committee members
<ul style="list-style-type: none"> Send dissertation/thesis to committee 1 month BEFORE defense date 	

Note: This is a general guide; your actions may vary by your program and/or degree aim (master's, PhD, etc.)

Scheduling your Defense

Work with:

- Committee → schedule defense date.
- Graduate coordinator →
 - Notify them of defense date.
 - Check if your committee members are up-to-date in student record.
 - Logistics (ie room for in-person meeting, any dept paperwork).

Defense expectations:

- Dissertation/thesis sent to committee 1 month before defense date.
- All committee members present at the same time.
- May be held in-person, remote, or hybrid format. Check with your dept if they have any specific policies for remote/hybrid.

File for Doctoral/Master's (Thesis) Degree

File for Degree Form = “applying” for graduation with GEPA

Sections circled in red unlock as you progress through the form.

Must complete Step 1 by Friday of Week 5 (for Summer, last Friday of Summer Session I).

UC San Diego

File for Doctoral/Master's (Thesis) Degree Form

This form should be submitted by Friday of Week 5 or the last Friday of Summer Session I to initiate filing for the degree with GEPA. If you have any questions, contact your GEPA Academic Affairs Advisor: <https://grad.ucsd.edu/about/meet-the-team/academic-affairs/index.html>.

****This form is only for Doctoral or Master's students who are defending & submitting a thesis/dissertation. If this does not apply to you, then contact your department to file for the degree.****

Step 1: Submit File for Degree

Student Name (auto-fills) Maxwell, Eliese	PID (auto-fills) A12345678
Email (auto-fills) etmaxwell@ucsd.edu	If PID is not displaying correctly above, then type in PID A12345678
Graduating in (quarter) * ---	

Department *

File for Degree Form Deadlines

	Complete Step 1	Formatting Pre-Check	Complete Step 3 (aka final submission)
Fall 2025	October 31, 2025	November 28, 2025	December 12, 2025
Winter 2026	February 6, 2026	March 6, 2026	March 20, 2026
Spring 2026	May 1, 2026	May 29, 2026	June 12, 2026
Summer 2026	July 31, 2026	August 21, 2026	September 4, 2026

File for Degree Form link: <https://ucsd.kualibuild.com/app/66c8c9df49bd650146b0ea1e/run>

File for Doctoral/Master's (Thesis) Degree

Once Step 2 is completed, review Step 3 Final Degree Checklist for a list of all paperwork & where to upload them.

When all items in Step 3 are completed, click “Mark Complete” to notify GEPA that you’re ready to graduate!

Must complete Step 3 by Friday of Week 11 (for Summer, last Friday of Summer Session II).

5:12:05 PM IN PROGRESS Workflow Status Save **Mark Complete**

Step 3: Final Degree Checklist

These are the required actions for finalizing your degree. You can use this as a checklist by checking off the items that you have completed and clicking “Save” to save your progress. You can return to the checklist by going to <https://ucsd.kualibuild.com/build/actions>.

Once all items have been “Completed”, click “Mark Complete” to submit the form to GEPA. Your GEPA Academic Affairs Advisor will be notified and will review your paperwork within 1-2 weeks. If Step 3 is not submitted, then GEPA will not review your paperwork.

****These actions should be completed as soon as possible. The completed checklist must be received by GEPA no later than 3:00pm on the last Friday of the quarter or the last Friday of Summer Session II in order to be eligible to receive your degree for the current quarter. If there are issues to resolve, then your degree may not be conferred until the following quarter. We recommend submitting this form in advance of the deadline.****
See filing deadlines: <https://grad.ucsd.edu/academics/enrolling/index.html>

I provided my department with my defense date, committee members & email addresses, dissertation/thesis title. *

Completed

Department has submitted the Final Report Form. If all committee members have signed, then you should've gotten an email from DocuSign. If unsure, contact your graduate coordinator. *

Completed

Dissertation/Thesis Release Form has been filled out, signed by me and my committee chair, and uploaded to ProQuest under “Administrative Documents”. *

Dissertation/Thesis Release [Form Link](#).

NOTE: if you choose an embargo, then your dissertation/thesis will be withheld during the embargo period. However, during the embargo period the citation and abstract of your work will be available through ProQuest and through the UC California Digital Library (eScholarship).

Completed

Formatting Pre-Check

Formatting pre-checks of your dissertation/thesis are **optional**.

What is it?

GEPA will review a draft of your dissertation/thesis' formatting before you submit the final version in Step 3.

How to request:

Complete Step 2 in the File for Degree Form and choose "Yes" for a pre-check.

Must request by Friday of Week 9 (for Summer, Friday of Week 8).

Step 2 (Student): Review Academic History

<p>Student Reviewed Academic History *</p> <p><input checked="" type="radio"/> I have reviewed all items in Academic History and will resolve any action items (if applicable).</p>	<p>Date Student Reviewed Academic History *</p> <div style="border: 1px solid gray; padding: 2px; width: 100%;">MM/DD/YYYY</div>
---	--

(Optional) I want a formatting pre-check of my dissertation/thesis.

Note: GEPA will review your formatting within 1 week. You will be notified via Kuali with formatting feedback. Formatting pre-checks are not available during the last 2 weeks of the quarter.

If you choose "No" for the optional pre-check, GEPA will review your dissertation/thesis for adherence to the UCSD formatting guidelines after you complete the final Step 3.

If you want a pre-check but your dissertation/thesis draft is not ready yet, then complete Step 2 when your paper is ready for a pre-check.

Yes

No



Formatting Pre-Check

What to expect:

Upload your fully formatted dissertation/thesis draft to [ProQuest](#).

- Add contact information & upload dissertation/thesis PDF in ProQuest.
- All details in ProQuest (including PDF) can be revised after the pre-check.

GEPA will review & send feedback via Quali.

Formatting Pre-Check	
<p>Below is feedback on your formatting.</p> <p>Do not re-send your dissertation/thesis to GEPA for a "second formatting pre-check". GEPA will review your paper again when you complete Step 3 in the File for Degree form.</p> <p>Please correct any errors before you complete Step 3.</p>	
<p>GEPA Academic Affairs Advisor *</p> <p>Maxwell, Eliese (etmaxwell@ucsd.edu)</p>	<p>As of this date, GEPA reviewed your dissertation/thesis formatting. *</p> <p>October 14, 2025</p>
<p>Title Page Corrections *</p> <ul style="list-style-type: none"> •Committee members must be in this order: Chair/co-chair(s) on top, with remaining members in alphabetical order by last name •Add "Professor" title to every committee member's name •No page number on this page 	
<p>Dissertation/Thesis Approval Page Corrections *</p> <ul style="list-style-type: none"> •Remove comma from "University of California San Diego" •Update year to the current year •Page number must be "iii" 	

Formatting Pre-Check FAQs

Can I email GEPA my dissertation/thesis?

No. It must be uploaded to ProQuest.

Does my paper need to be 100% written?

No. It can be in progress, but you must have the preliminary pages and a portion of your paper written (i.e. a few chapters). It must be **fully formatted** to UCSD guidelines.

Do I need to send my paper back for a second pre-check?

No. GEPA will review it again when you complete Step 3 after your defense.

Will GEPA still review my dissertation/thesis if I don't schedule a pre-check?

Yes! GEPA reviews all dissertations/theses once you complete Step 3.

Publishing Dissertation/Thesis in ProQuest

ProQuest – Publishing Options

Your dissertation/thesis will be published in ProQuest and UC eScholarship.

Publishing Options in ProQuest:

- Traditional vs. Open Access
 - This option is specific to how your dissertation/thesis is released in the ProQuest database. Your paper will always be open access on eScholarship.

	Traditional <i>Free</i>	Open Access <i>\$95.00</i>
Full text	Available with ProQuest subscription to Dissertations & Theses Global	★ Available to anyone at ProQuest.com
Abstract & citation	Available on Web of Science & Google Scholar as well as topic-specific indexes	★ Available on Web of Science & Google Scholar with links to full text as well as topic-specific indexes
Purchasing options 	PDF, hardcover & softcover copies	★ Hardcover & softcover copies PDF can be downloaded at no cost
Royalties 	★ Eligible	Not eligible
Integrity safeguard	Plagiarism protection through Turnitin	Plagiarism protection through Turnitin
Rights	Non-exclusive; you retain all rights View agreement	Non-exclusive; you retain all rights View agreement

ProQuest – Publishing Options

Immediate release vs. Embargo (aka delayed release)

- 2 years is **mandatory** for: Biology, Biomedical Sciences, Sociology
- 10 years is **mandatory** for: MFA in Writing

Delaying release in ProQuest

I want my work to be available in ProQuest as soon as it is published. *

Yes

No - I have patents pending, or another reason why I need to delay access to the full text of my work.

How long would you like to delay the publishing of the full text to ProQuest? * (more info)

6 months 1 year 2 years

Until the following date:

YYYY-MM-DD (leave blank to never display)

Common reason for an embargo: You have a patent or publication pending and your dissertation/thesis shouldn't be public before the patent/publication is finalized.

Embargo Example

Advancing Human-Machine Interfaces and Healthcare Monitoring with Wearable Electronics

2025 | Chen, Xiangjun **Advisor(s):** Xu, Sheng S.X.

No data is associated with this publication.

Main Content

Author & Article Info

— Abstract

Wearable electronics have revolutionized human-machine interfaces and healthcare monitoring by enabling non-invasive, continuous, and real-time assessment of motion and physiological signals. This dissertation presents advancements in these fields through the development of novel stretchable devices and the integration of machine-learning techniques in four chapters. The first chapter introduces a wearable human-machine interface that integrates an inertial measurement unit (IMU) and electromyography (EMG) sensors. Leveraging a deep-learning neural network trained on a composite dataset, the system effectively mitigates diverse motion artifacts, enabling continuous and precise robotic control in highly dynamic environments. The second chapter presents a fully integrated, single-transducer echomyography (EcMG) system for long-term, wireless muscle signal monitoring. Designed to be worn on the forearm, the system employs a deep-learning model to correlate single-transducer signals from forearm muscles with hand gestures, achieving continuous and precise tracking of 13 hand joints with a mean error of 7.9°. Furthermore, the biomedical application of the EcMG system for real-time respiratory monitoring will be explored, demonstrating its capability to track diaphragm movement in both patients and healthy subjects. The third chapter discusses a photoacoustic wearable patch that integrates an array of ultrasonic transducers and vertical-cavity surface-emitting laser (VCSEL) diodes on a common soft substrate. The high-power VCSEL diodes generate laser pulses capable of penetrating more than 2 cm into biological tissues, activating hemoglobin molecules to produce acoustic waves. These waves are subsequently detected by the transducers, enabling high-resolution three-dimensional temperature imaging of hemoglobin. Finally, the fourth chapter introduces a stretchable capacitive sensing device with integrated electrodes and control electronics, offering enhanced signal quality. By utilizing a dielectric calcium copper titanate oxide (CCTO) as the adhesive layer, the device achieves increased electrode capacitance, resulting in an improved signal-to-noise ratio in the acquired biopotential signal.

— Main Content

🕒 This item is under embargo until April 9, 2027.



ProQuest – Submitting your Paper

When ready to submit the final version of your dissertation/thesis:

- Complete all the sections.
- Hitting “Submit” just submits to GEPA. Edits can still be made.
 - It will not be published at that moment.
 - Hardcopy orders will reflect the final version of your dissertation/thesis that is accepted by GEPA.

Submission steps
Publishing information:
<input checked="" type="checkbox"/> Instructions
<input checked="" type="checkbox"/> PQ publishing options
<input type="checkbox"/> ProQuest agreement
<input type="checkbox"/> Contact information
About my dissertation/thesis:
<input type="checkbox"/> Dissertation/Thesis details
<input type="checkbox"/> PDF
<input type="checkbox"/> Supplemental files (optional)
<input type="checkbox"/> Administrative documents
<input type="checkbox"/> Notes (optional)
Submission & payment:
<input type="checkbox"/> Register U.S. Copyright
<input type="checkbox"/> Order copies
<input type="checkbox"/> Submit

ProQuest – Submitting your Paper

The submission process is free of charge unless you select any of the following during final submission:

- **Register copyright with the US Copyright Office**
 - Registering with the US Copyright Office is just an extra level of protection. You will have copyright regardless.
 - ProQuest can only do this on your behalf if you are the sole author. If you have co-authors and want to register your copyright, you have to file with the US Copyright Office directly.
- **Select open access publishing for ProQuest** (eScholarship is already open access)
- **Order hardcopies of dissertation/thesis**

Final Degree Paperwork

Final Degree Paperwork

How do students turn in their final degree paperwork to GEPA?

Complete Step 3 in the Kualu form.

When do students turn in their final degree paperwork to GEPA?

Any time after the defense and before the filing deadline. If you have a specific deadline (for a job, application, etc), then Step 3 should be completed one week before that specific deadline.

How long does it take GEPA to review final degree paperwork?

Up to 1 week. Once we review, we will let you know if your paperwork is completed or if anything needs a correction.

Tip: Complete Step 3 as soon as possible! In case there are any issues with your paperwork, it gives you time to fix the issues before the filing deadline.

Final Degree Paperwork

Paperwork for students to complete

Upload to [ProQuest](#):

- Dissertation/Thesis Release form (aka Embargo Form)
- Final version of your dissertation/thesis
- Complete all sections of the ProQuest submission. Click “Submit”.

Fill out in Quali:

- Step 3 of the File for Doctoral/Master’s (Thesis) Degree form
- Co-author permission letters, as a single PDF (*if applicable*)

SDSU JDP students only:

- Send the [signature page](#) (DocuSign) to your committee members

Final Degree Paperwork

Paperwork for your department to complete in DocuSign

Final Report Form

- Will indicate if filing or readmission fee is required
- **SDSU JDP students only:** SDSU department sends the JDP5 form

General Petition Form to waive academic residency requirement *(if applicable)*

Filing Deadline

All paperwork must be turned in by the filing deadline.

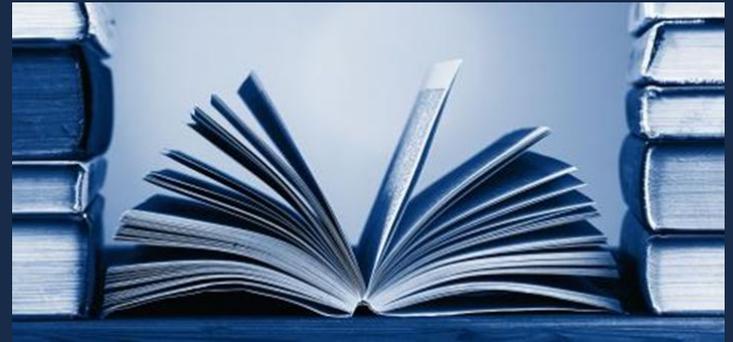
The filing deadline is always the 11th Friday of each quarter. (For Summer, it is the last Friday of Summer Session II).

Receipt of the final dissertation/thesis, paperwork or any required signatures after the filing deadline will result in your degree being awarded in the next quarter.

Winter 2026 deadline: March 20, 2026

Spring 2026 deadline: June 12, 2026

Dissertation & Thesis Formatting Manual



General Specifications

Margins = 1 inch on all sides

Paragraphs =
double spaced (2.0 spacing) and first line
is indented

Font = something easy to read
(ie Arial, Times New Roman, Helvetica)
Font sizes = 10, 11 or 12
Must be in black

Page number = 0.5" from bottom
of the page and centered

Chapter 1 INSERT CHAPTER TITLE

Add your text here and indent the first line of all new paragraphs. All text is double spaced. All text and hyperlinks must be the same font, same font size (10-12pt), and in black colored text. All text must be the same justification, like left justified or fully justified. All text, figures/tables, captions, and equations must fit within the 1-inch margins.

Add your text here and indent the first line of all new paragraphs. All text is double spaced. All text and hyperlinks must be the same font, same font size (10-12pt), and in black colored text. All text must be the same justification, like left justified or fully justified. All text, figures/tables, captions, and equations must fit within the 1-inch margins.

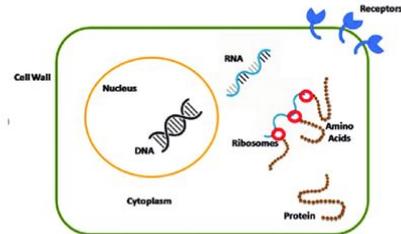


Figure 1.1: Figure caption example. Figure captions go below figures.

Add your text here and indent the first line of all new paragraphs. All text is double spaced. All text and hyperlinks must be the same font, same font size (10-12pt), and in black colored text. All text must be the same justification, like left justified or fully justified. All text, figures/tables, captions, and equations must fit within the 1-inch margins.

Preliminary Pages

blue pages = required

green pages = optional

purple = MAY or may not be required

- Title Page
- Copyright or Blank Page
- Dissertation/Thesis Approval Page
- Dedication & Epigraph
- Table of Contents
- List of Abbreviations (Symbols)
- List of Figures/Tables, etc. (*required only if you have figures/tables in your paper*)
- Acknowledgements (*required only if you have co-authors &/or are publishing*)
- Vita/Master's thesis – optional
- Vita/PhD dissertation – required
- Abstract of the Dissertation/Thesis

Title Page

Use the term **dissertation** throughout your paper, if you are receiving a **PhD** degree.

Use the term **thesis** for a **Master's degree**.

Make sure the title is exactly the same everywhere (*title page, abstract, ProQuest account & paperwork*).

Committee:

- List chair first
- Then list co-chair(s) *if applicable*
- Then list remaining members in alpha order by last name
- Use the title, Professor (not Dr. or Prof.)

The year at the bottom = the year you will graduate, not when you started writing your paper.

No page number on this page.

UNIVERSITY OF CALIFORNIA SAN DIEGO

This is the Title of My Dissertation

A dissertation submitted in partial satisfaction of the requirements for the degree Doctor of Philosophy/Doctor of Musical Arts

in

My Degree Title

by

[My Name as listed on UC San Diego official student record]
(legal or lived name is accepted)

Committee in charge:

Professor Eta Theta, Chair
Professor Gamma Delta, Co-Chair (*if applicable*)
Professor Lamda Kappa
Professor Iota Mu
Professor Epsilon Zeta

2024

Copyright (or blank) Page

Use either the word, “copyright” or the © symbol - not both.

You can opt to use a blank page here.

Your name must appear exactly the same on all pages.

The year = the year you will graduate.

Copyright (or ©)

[My Name as listed on UC San Diego official student record], 2024
(legal or lived name is accepted)
All rights reserved.

Dissertation/Thesis Approval Page

Roman numerals begin on this page, with the Roman numeral **iii**.

ALL page numbers are to be centered and 0.5” from the bottom.

Note: SDSU JDP students still need signature lines on this page - refer to the formatting manual or template

The dissertation of [My Name as listed on UC San Diego official student record (legal or lived name is accepted)] is approved, and it is acceptable in quality and form for publication on microfilm and electronically.

University of California San Diego

2024

0.5” from bottom
of the page



Table of Contents

Page numbers for entries are right aligned and in a straight line.

Use ellipses.

Include “Table of Contents” and its page number on this page.

Don’t forget to include “of the dissertation” or “of the thesis” next to the word, “Abstract”.

Make sure page numbers on this page are correct before submitting.

TABLE OF CONTENTS

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List of Figures/Tables/ Schemes/etc.

Maximum 4 lines per entry on this page. Do not summarize the caption, just truncate it.

Page numbers for entries are right aligned and in a straight line.

Use ellipses.

The numbering system used here should match the numbering system used for the figures/tables in the body of your paper.

LIST OF FIGURES (or TABLES, SCHEMA, GRAPHS)

Figure 1.1: caption goes here	16
Figure 1.2: caption goes here	18
Figure 2.1: caption goes here	24
Figure 2.2: caption goes here	25
Figure 3.1: caption goes here	30
Figure 3.2: caption goes here	33

NOTE: if captions are longer than 4 lines they must be abbreviated on the list to 4 or fewer lines. The word "Figure" (or "Table," or "Graph") must appear before each caption on the list and before each caption within the text.

Acknowledgements

Required only if you have co-authors or your dissertation/thesis will be published in a journal or similar publication.

“Chapter __” paragraphs must be copied & pasted to the end of their respective chapters.

See online manual for specific verbiage to include here.

Unsure if you have co-authors? Consult your PI.

ACKNOWLEDGEMENTS

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

I would also like to acknowledge the “Smith Clan” of lab 28, without whom my research would have no doubt taken five times as long. It is their support that helped me in an immeasurable way.

Chapter 2, in full, is a reprint of the material as it appears in Numerical Grid Generational in Computational Fluid Mechanics 2020. Smith, Laura; Smith, Jane D., Pineridge Press, 2020. The dissertation/thesis 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, 2021, Smith, Laura; Smith, Jane D., Traylor Press, 2021. The dissertation/thesis author was the primary investigator 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/thesis author was the primary investigator and author of this material.

Chapter 6 is coauthored with Smith, Jane D. and White, Sigmund. The dissertation /thesis author was the primary author of this chapter.

Vita

Vita is required for PHD/dissertations but is optional for Master's/theses.

The minimum requirement on this page is education information.

VITA

2016	Bachelor of Arts, University of California, Berkeley
2010-2015	U.S. Marines
2016-2018	Teaching Assistant, University of California San Diego
2019	Master of Science, University of California San Diego
2018-2023	Research Assistant, University of California San Diego
2024	Doctor of Philosophy, University of California San Diego

PUBLICATIONS

"Distribution of Control Points in a System for Analysis of Stress Distribution"
IRE Transactions of the IRE Professional Group on Automatic Control, vol. AC-7, pp 272-289, September 2019.

FIELDS OF STUDY

Major Field: Engineering

Studies in Applied Mathematics
Professors Alpha Beta and Gamma Delta

Abstract of the Dissertation/Thesis

Maximum words: 350 for PhD Dissertation;
250 for Master's Thesis.

Required top margin is at least 2.5" - but only for the **first page** of the abstract.

Only chairs & co-chairs are listed on this page.

Use double spacing and indent the first line of each paragraph. The same holds true for the body of your text.

Your title and abstract will be visible to the general public when your paper is published, even if you opt to embargo (ie delay the release of).

At least 2.5"



ABSTRACT OF THE DISSERTATION

Place Full Title of
Doctoral Dissertation Here

by

[My Name as listed on UC San Diego official student record]
(legal or lived name is accepted)

Doctor of Philosophy/Doctor of Musical Arts in Degree Title

University of California San Diego, 2024

Professor Eta Theta, Chair
Professor Alpha Beta, Co-Chair (if applicable)

The Abstract begins here. The abstract is limited to 350 words for a doctoral dissertation. It should consist of a short statement of the problem, a brief explanation of the methods and procedures employed in generating the data, and a condensed summary of the findings of the study. The abstract may continue onto a second page if necessary. The text of the abstract must be double spaced.

[Please note: If you choose to delay the release of your work, access to the full text of your work will be delayed for the period of time that you specify. The citation and abstract of your work will be available through ProQuest and through the UC California Digital Library (eScholarship). See page 44 in this manual for information regarding delayed release.]

Introduction and beyond

CONSISTENCY

...is the key!

Introduction and Beyond

Begin your Arabic numerals, here with **1**.

Chapter 1. Introduction

It is estimated that lighting accounts for 22% of the total US electrical energy use and 7% of the global primary energy expenditure. From the latest available data from the U. S. Department of Energy (DOE), it showed that more than 70 % of electricity used for total lighting is for commercial and residential lighting with 85 % of residential lighting using incandescent lights and fluorescent lamps, as shown in Figure 1.1. [1]. Since most of the energy used for the incandescent lamp is wasted as infrared radiation and mercury in the fluorescent lamps can cause environmental problems, there have been long efforts to improve the efficacy of the technology, as well as developing a more energy efficient light and environmental source to replace incandescent and fluorescent lighting [2].

The beginning of modern lighting technology is generally attributed to the invention of the incandescent lamp by Sir Thomas Edison in 1878 [3]. The color of light produced by a heated metal filament in an incandescent lamp appears close to that of the sun, to which the human eye has been adapted [4]. Objects illuminated under an incandescent light would appear to have a natural color. To determine the "quality" of a light source, one parameter called the color rendering index (CRI) is often used. This index, with a scale of 0 to 100, measures the ability of the light source to accurately display the color of an object compared to a standard illuminant [4]. The incandescent light has a high CRI of about 100, while low pressure sodium lamps have CRI of about 18 [4]. However, about 95% of the electricity used by a typical incandescent light bulb is wasted as heat and infrared radiation, which results in a low luminous efficiency of ~12 lumens per watt (lm/W) [4]. With a tungsten-halogen cycle, halogen incandescent lamps have longer filament lifetimes as the filament evaporation rate is reduced. This also allows the halogen lamps to be at full brightness for longer time and have a comparable CRI relative to the traditional incandescent lamps, resulting in more than twice the efficiency (~30 lm/W) [4]. Unlike



Figure and Table Captions

Figure (or table) and its caption should be together on the same page.

Captions for figures go **BELOW** the figure.

Captions for tables go **ABOVE** the table.

If one of the captions in your paper is more than 4 lines then ALL captions throughout your paper must be single spaced.

Exceptions to the above may apply. See online manual or your GEPA Academic Affairs Advisor.

Figure 2.1. Color ranges of LEDs depending on the semiconductor composition [1].

Table 2.1. Comparison of energy efficiency, luminous efficacy (lumens/watt), lifetime, heat and presence of mercury of commonly available light sources [1].

	Incandescent	Halogen	Compact fluorescent	High intensity discharge	LED
Energy efficiency	Very low	Low	High	High	Very High
Luminous efficacy (Lumens/Watt)	14	24	60-100	65-110	80-140
Lifetime (hours)	1000	2000-3000	6000-10000	20000	50000
Heat	Yes==	Yes==	Yes	Yes	No
Mercury	No	No	Yes	Yes	No

References/Bibliography /Works Cited

Use the reference style that is traditional for your discipline.

TWO formatting rules for this page:

1. **Spacing:** Single space each entry with a double space in between entries - as shown to the right
2. **Et al or** are not allowed on this page (see *highlighted examples to the right*). **ALL** authors must be listed for each referenced publication

Et al or ... is allowed while citing references within the body of the paper.

References

1. Edwards, H., Yang, Z., & Xu, P. (2020). Characterization of Met25 as a color associated genetic marker in *Yarrowia lipolytica*. *Metabolic Engineering Communications*, 11. <https://doi.org/10.1016/j.mec.2020.e00147>
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Dissertation/Thesis Template

Templates for PHD dissertations and Master's theses are available on the [GEPA website](#).



Cover Letter & Co-Author Permission Letters

Cover Letter & Co-Author Permission Letters

What are the co-author letters?

It is signed permission from your committee chair and co-authors that they confirm that they are okay with the publication/material being used in your dissertation/thesis.

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Judy Kim, Dean
Division of Graduate Education
UC San Diego

MM/DD/YYYY

Dear Dean Kim:

We request permission for Laura Smith to use the following publication in her doctoral dissertation/master's thesis. Ms. Smith was the principal researcher/author on this paper.

Smith, Laura; Smith, Jane D.; White, Sigmund. "The Effect of Stress Distribution on Photoelasticity", Name of Journal, vol. 4, 2019.

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Smith, Laura; Smith, Jane D.; White, Sigmund. "The Effect of Stress Distribution on Photoelasticity".

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~OR~

Laura Smith has my permission to include the following paper which was submitted for publication, of which I was a co-author, in her doctoral dissertation/master's thesis.

Smith, Laura; Smith, Jane D.; White, Sigmund. "The Effect of Stress Distribution on Photoelasticity".

~OR~

Laura Smith has my permission to include material, currently being prepared for submission for publication, of which I was a co-author, in her doctoral dissertation/master's thesis.

Smith, Laura; Smith, Jane D.; White, Sigmund. "The Effect of Stress Distribution on Photoelasticity".

~OR~

Laura Smith has my permission to include unpublished material coauthored with me in her doctoral dissertation/master's thesis.

Smith, Laura; Smith, Jane D.; White, Sigmund. Chapter 6, Title.

Jane D. Smith

Permission Letter FAQs

Do I need permission letters for...

- All co-authors? → **Yes**. Includes any co-authors that are your committee members and are UCSD faculty/students.
- From my committee chair/co-chair? → **No**. They only need to sign the cover letter.
- A paper that is in prep for publication? Even if it'll be unpublished by the time I graduate? → **Yes & yes**.

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