

- Fall 2023

Electrical and Computer Engineering (Thesis) – PHD

Signal and Image Processing

Student Bio

Sex: Male

Citizenship: International

Self-reported GPA

Undergraduate: 3.5/4.0

Graduate: 3.556/4.0

Institution Attended

| | | |
|------------|--|----------------------------|
| [REDACTED] | Master of Engineering: June/2023 (Unverified) | September/2021 - June/2023 |
| [REDACTED] | Bachelor of Science: July/2021 (Unverified) | September/2017 - July/2021 |

Test Score

| | Taken | Source |
|---|--------------|---------------------|
| GRE - General Vrb: [REDACTED] Qnt: [REDACTED] Wrt: [REDACTED] | 10/2020 | Self-reported Score |

Requirement

| | Completed | Waiver |
|--------------------------------------|------------------|------------------------------|
| Application Fee | 10/18/2022 | |
| Recommendation 1 [REDACTED] | 11/15/2022 | |
| Recommendation 2 [REDACTED] | 12/06/2022 | |
| Recommendation 3 [REDACTED] | 12/13/2022 | |
| Resume/CV | 10/19/2022 | |
| Statement of Purpose | 10/19/2022 | |
| Supplemental Information | 10/19/2022 | |
| Proof of English Proficiency | 10/19/2022 | Admissions Waiver (Approved) |
| Unofficial Transcript: [REDACTED] | | |
| Unofficial Transcript: [REDACTED] | | |

Document

| | Date | By |
|--|---------------------|---------------------|
| Recommendation 1 [REDACTED] | 11/15/2022 | ADM-GRAD-REFERENCES |
| Recommendation 2 [REDACTED] | 12/06/2022 | [REDACTED] |
| Recommendation 3 [REDACTED] | 12/13/2022 | ADM-GRAD-REFERENCES |
| Resume/CV | 10/19/2022 | MY_UI |
| Statement of Purpose | 10/19/2022 | MY_UI |
| Statement of Purpose | 10/19/2022 | MY_UI |
| Supplemental Information | 10/19/2022 | PUB-ADMISSIONS |
| Other Application Support Document - A paper base on the research activities | 10/28/2022 | MY_UI |
| Other Application Support Document - Research Plan | 10/28/2022 | MY_UI |
| Admissions Application | 10/18/2022 | ADMUPLOAD |
| [REDACTED] | 10/18/2022 08:43:19 | MY_UI |

10/19/2022 02:02:20

MY_UI

Graduate Applicant Recommendation - Electrical and Computer Engineering

Workflow ID: 13358805

Recommender

First Name

[REDACTED]

Last Name

[REDACTED]

Title

Academic Advisor

Institution/Organization

[REDACTED]

Applicant

First Name

[REDACTED]

Last Name

[REDACTED]

Applicant Program

Electrical and Computer Engineering PHD (Thesis)

May we please have your opinion of the person who is applying for admission at the University of Iowa.

Please rate the applicant:

Recommended with reservations

Academic Rank

How would you rate applicant's undergraduate academic rank among the students you have taught recently? Please write appropriate numbers below.

List number from the top:

List the number of students:

10

How long have you known the applicant?

1 year

In what capacity have you known the applicant?

instructor

| Attachment Type | Description | Uploaded By |
|-----------------------|-------------|---------------------|
| Recommendation Letter | | 11/15/2022 09:48 PM |

[REDACTED] Professor and Department Chair
now just crop in pdf preview the size you want, save the crop as a pdf:
Electrical and Computer Engineering

[REDACTED]
[REDACTED]
6 [REDACTED], USA

November 15, 2022

Re: Recommendation of [REDACTED]

Dear Admissions Committee,

I write this letter on behalf of [REDACTED] who has applied for admission to your PhD degree program. He is in the second year of a two-year Masters of Science in Computer Engineering from the [REDACTED]

[REDACTED] is currently in my course *Real-Time Digital Signal Processing Lab* [REDACTED] during the Fall 2022 term. This course involves substantial programming and follows-on from the course *Digital Signal Processing I* [REDACTED] which covers the fundamentals of digital signal processing.

[REDACTED] was also in my course *Digital Signal Processing I* [REDACTED] during the Spring 2022 term. He ranked 26 out of 72 students (top half of class) and he received a grade of B+ in this course.

[REDACTED] has a passion for signal and image processing, and he has a good background in computer engineering and computer science. He has taken Computer Architecture, Embedded Systems, a two-course sequence on VLSI design, and a course on VHDL.

I expect that [REDACTED] will be diligent and motivated if given the opportunity to pursue a PhD degree, and that with suitable mentorship and guidance he would be successful.

Sincerely,

[REDACTED]

August 25, 2022

To whom it may concern,

I'm writing this letter to help you evaluate [REDACTED] performance in the Digital Image Processing Online Research Seminar. I've included a program summary for your reference and to provide you an idea of what the student has accomplished in this program.

This program was designed to provide students 1) A wide range of different Imaging modalities; 2) Pointwise operations on images such as gamma correction, color correction, resizing, etc.; 3) Spatial image enhancement techniques such as noise reduction, sharpening, smoothing, histogram equalization, etc.; 4) A variety of frequency-domain techniques for image enhancement, noise reduction, sharpening, smoothing, etc.; 5) Image compression with an introduction to wavelets; 6) Image segmentation and Recognition. After a series of lectures and workshops, students were required to work individually on the Image Processing final project utilizing the knowledge and skills they have learnt from class, culminating in an oral presentation to present their methods and results. Students also submitted an individually written report on the topic on which they had worked.

Overall, [REDACTED] performance in this program was good.

[REDACTED] was well-prepared for each class. He actively participated in class discussions and demonstrated the ability to grasp new concepts quickly. [REDACTED] also completed four weekly assignments, in which he performed different tasks on MATLAB. He managed to complete most of the tasks in the assignments with fairly good quality. This showed that he has a reasonably good understanding of course content. For further improvement, he is encouraged to complement his work with more detailed and clear descriptions in the reports.

At the end of the program, [REDACTED] and his teammates designed an optical character recognition(OCR) app for handwritten numbers as their final project. This app aimed to provide data preprocessing that reduces image noise and distortion and improves recognition accuracy. They gave a class presentation and submitted a written report on the topic. In the presentation, [REDACTED] focused on the use of Hough Transformation in building the app, presenting the codes he used. In the end, he touched upon possible applications of the app. Overall, [REDACTED] did a great job in his final project and demonstrated a good ability to apply the skills he learned in building this app.

I hope [REDACTED] can pursue further study in this field. If there are any specific questions I can answer about [REDACTED] performance in this program, please feel free to contact me.

Sincerely,

A large black rectangular redaction box covering the signature area.

*

[REDACTED] obtained the BS (Phi Beta Kappa), MS and PhD degrees in Physics all from [REDACTED]. He has subsequently been employed at [REDACTED] as a member of Technical Staff, at the [REDACTED] [REDACTED] where he was both a [REDACTED] and a director and following that as a serial entrepreneur. He has also been employed at [REDACTED] as a Research Associate, visiting lecturer, lecturer, and Design Specialist. He currently holds an adjunct faculty position at [REDACTED] in South Korea. He has published over a dozen papers and is the holder of over 70 issued patents.

Graduate Applicant Recommendation - Electrical and Computer Engineering

Workflow ID: 13418522

Recommender

First Name

[REDACTED]

Last Name

[REDACTED]

Title

Academic Committee Senior Advisor

Institution/Organization

[REDACTED]

Applicant

First Name

[REDACTED]

Last Name

[REDACTED]

Applicant Program

Electrical and Computer Engineering PHD (Thesis)

May we please have your opinion of the person who is applying for admission at the University of Iowa.

Please rate the applicant:

Highly Recommended

Academic Rank

How would you rate applicant's undergraduate academic rank among the students you have taught recently? Please write appropriate numbers below.

List number from the top:

please refer to the reference letter

List the number of students:

20

How long have you known the applicant?

2 months

In what capacity have you known the applicant?

online program

| Attachment Type | Description | Uploaded By |
|------------------------|--------------------|--------------------|
|------------------------|--------------------|--------------------|

There are no current attachments

Applicant: [REDACTED]

Resume

Date of Birth: [REDACTED]

Tel: [REDACTED]

Email: [REDACTED]

◆ RESEARCH INTEREST

Signal and Image Processing

◆ EDUCATION BACKGROUND

- Major: Computer Engineering
- Current GPA: 3.556 /4.0

[REDACTED] 09/2021-Present

- Major: Computer Science
- Current GPA: 3.5/4.0
- GRE Score: [REDACTED]

[REDACTED] 09/2017-07/2021

◆ ACADEMIC PROJECT AND DESIGN

- The purpose of the project: Identify the numbers (0-9) written on the paper by hand, which can be applied to actual production such as mail sorting and data statistics.
- My role: The member of the three-people team
- Technique used: Matlab
- My work: Take photos of the paper with handwritten digits, preprocessed the images, and then binarized. Extracted the number of the images by the bwlabel function in MATLAB for recognition.

- Game Story: You are a bard in a pirate band. Bad pirates steal all your instruments. They are now too depressed to head to crystal cove to get the treasure. You must go through a level to each pirate that stole one of the instruments.
- My role: In charge of enemy programming, just searching unity tutorials online is a great place to start. I'd personally recommend the Unity docs, as they tell you what every function does.
- Technique Used: C#

Computer Science and Artificial

[REDACTED] 08/2020-10/2020

- Supervisor: [REDACTED]
- Purpose: To develop a three-dimensional system for reliable traffic monitoring solving the problem of overlapping vehicles and shadow.
- Technique Used: Matlab
- Report Undertaken: use computer vision to analyze the graphs of vehicles and shadows.

Health Provider web application

[REDACTED] 01/2020-05/2020

- Supervisor: [REDACTED]
- Purpose: The idea of healthcare provider application is to allow users to book online doctor's appointment through the website.
- Core Features: This project mainly used the Express framework of node.js and mongodb database to book doctor's appointment; search by doctor and hospitals; allow patients to make notes on what needs to be asked to a doctor prior to appointment.
- Technique Used: HTML/CSS/Javascript

Self-driving auto-connection APP

[REDACTED] 09/2019-12/2019

- Supervisor: [REDACTED]
- Purpose: To help elders and the people who have disabilities to easily operate a self-driving vehicle,

- for whom the option to go directly to a usual location is needed.
- Core Features: The APP has three tabs for the achievement of searching the self-driving vehicles, creating the routines automatically, and controlling the self-driving vehicles.
 - Technique Used: Java

◆ PUBLICATIONS

- Title: [REDACTED] 10/2022

Author name(s): [REDACTED] (Independent author)

Abstract: The paper demonstrate the handwritten number recognition system through the image processing algorithms and image binarization method in detail. Introduces the meaning and generalization of the handwritten number recognition system. The results from the analysis show that the proposed image processing method for handwritten number recognition is effective.

Publish: The paper has been accepted by the 2022 6th International Conference on Electronic Information Technology and Computer Engineering(EITCE 2022),will be published on ACM-International Conference Proceedings Series [REDACTED]

◆ INTERNSHIP EXPERIENCE

[REDACTED] 06/2020-08/2020

- Position: Data Analyst

Responsibility: Collecting and collating user data in the system by using Excel;
Completing visual analysis of user data by using python;
Conducting user data analysis report, etc.

[REDACTED] 06/2019-08/2019

- Position: Programmer

Responsibility: Programming, code writing, and unit testing;
Being engaged in process of website frame development

[REDACTED] 06/2018-08/2018

- Position: System Architect

Project Taken: OA project (adjustment of OA process and organizational structure) and Human Attendance System Project
Responsibility: system docking and system structure adjustment of the above projects

◆ AWARD & HONORS

- University scholarship for excellent international student \$9000/semester
A scholarship awarded to international student who behave excellently in academic performance for consecutive school years.
- [REDACTED] Gold Medal of Senior High School Groups
An award for outstanding groups with creative idea and innovative creation after three round competitions, and finally obtaining opportunity for ROBOFEST World competition in USA.
- [REDACTED] First Prized in USA
An award for outstanding groups in robot design, and our design is “search and rescue robot for water situation”.
- First Prize in Recitation Contest of [REDACTED]
- Excellent Prize in Vocal, Dancing and Performance Competition of [REDACTED]

◆ PROFESSIONAL SKILLS

- Computer Languages: Java, C++, Python, R, HTML/CSS/Javascript (node.js)

STATEMENT OF PURPOSE

I am a graduate student at [REDACTED] majoring in Computer Engineering and expect to complete my current course by July 2023. I am passionate about Computer Signal and Image Processing in PHD program, I had equipped myself with a full range of computer knowledge and skills from both [REDACTED]. During my study, I have taken virtually all the related courses offered and got the excellent GPA and GRE score which fully demonstrate my learning ability. I also spent significant amount of time on projects and internships which could be found on my CV. Therefore, I believe such hands-on experiences are essential to be a successful computer engineer.

My research interest in this field originated from a research project I participated in August 2022. The project is about digital image processing and segmentation. Our team of three successfully achieved handwritten number recognition system. I have been working with my supervisor, [REDACTED] [REDACTED] to study digital image processing and segmentation. During this period, I improved my professional ability of binarization, transforming the image from spatial domain to frequency domain for filtering, and involved more matrices and mathematical theories. In this project, I did encounter some unpredictable obstacles. For instance, when I wrote numbers on paper with horizontal lines, which cannot be accurately identified. Later, I used Hough transform to identify the horizontal line and then remove it to identify the number. The greatest benefit I gained is I learned how to obtain information through function operation, etc. from the gray histogram to judge the quality of the image. Moreover, I mastered the mathematical method to make the gray histogram of the image be distributed evenly, so that the image will be optimized. At the beginning, I demonstrated what system was, and then I transformed Z-transform and time domain into frequency domain, which led to filtering in frequency domain. Moreover, I also focused on the difference between FIR and IIR filter, especially how to design IIR filter. Next, our team discussed about DTFT and DFT, and the relationship between them combined with the matrix. Finally, we did research on linear phase windows, and the STFT, which was mainly used in speech signal recognition. Based on my study in this program, I wrote a paper entitled [REDACTED] [REDACTED] which has been accepted by the 2022 6th International Conference on Electronic Information Technology and Computer [REDACTED], it will be published on ACM-International Conference Proceedings [REDACTED]

By far, Images are the most efficient way to communicate. Digital image processing is rapidly becoming an important application in the field of engineering. There are numerous image and video databases on both public and private networks. Therefore, mastering the technology to extract relevant information is crucial for now and future. Image processing is often used in aerospace, biomedical engineering, communication engineering, industrial engineering, robot vision, video and multimedia and so on. Among them, the application of digital image processing technology in biomedical engineering area is one of my main research directions. I aim to develop early identification of disease patterns from medical image data, computer-aided surgical planning and more novel methods which focusing on clinical application.

From your electrical and computer engineering college homepage, I found that The Medical Image Analysis Labs are equipped with state-of-the-art devices for data storage, transfer, visualization, and analysis. High-capacity data storage devoted to image processing research offers more than 35 TB of online hard disk space. The PhD Students are immersed in research groups committed to solving global challenges. The research in your program is collaborative and cross-disciplinary, which is very attractive for me. I would greatly appreciate it if you could consider and accept me into your program. I am confident that my knowledge and passion would contribute and create value. Thank you for your time and consideration, I look forward to hearing from you soon

Graduate Applicant Supplement - Electrical & Computer Engineering 2020

Workflow ID: 13307004

First Name

[REDACTED]

Last Name

[REDACTED]

University ID

[REDACTED]

Applicant Program of Study

Signal and Image Processing in computer engineering

If applying for a master's degree, do you plan to continue in a doctoral program at The University of Iowa?
No Answer

List any University of Iowa faculty with whom you have discussed your plans.

No Answer

Have you applied for admission to a UI graduate program within the last year?

No

If yes, for which session did you apply?

No Answer

Describe any research you have completed.

1.Digital Image Processing and Segmentation 06/2022-07/2022

The purpose of the project: Identify the numbers (0-9) written on the paper by hand, which can be applied to actual production such as mail sorting and data statistics.

My role: The member of the three-people team

Technique used: Matlab

My work: Take photos of the paper with handwritten digits, preprocessed the images, and then binarized. Extracted the number of the images by the bwlabel function in MATLAB for recognition.

2.Computer Science and Artificial Intelligence Research of 08/2020-10/2020

Supervisor: [REDACTED]

Purpose: To develop a three-dimensional system for reliable traffic monitoring solving the problem of overlapping vehicles and shadow.

Technique Used: Matlab

Report Undertaken: use computer vision to analyze the graphs of vehicles and shadows.

3.Health Provider web application 01/2020-05/2020

Supervisor: [REDACTED]

Purpose: The idea of healthcare provider application is to allow users to book online doctor's appointment through the website.

Core Features: This project mainly used the Express framework of node.js and mongodb database to book doctor's appointment; search by doctor and hospitals; allow patients to make notes on what needs to be asked to a doctor prior to appointment.

Technique Used: HTML/CSS/Javascript

4.Self-driving auto-connection APP 09/2019-12/2019

Supervisor: [REDACTED]

Purpose: To help elders and the people who have disabilities to easily operate a self-driving vehicle, for whom the option to go directly to a usual location is needed.

Core Features: The APP has three tabs for the achievement of searching the self-driving vehicles, creating the routines automatically, and controlling the self-driving vehicles.

Technique Used: Java

In what area(s) would you like to do research?

Signal and Image Processing

For what career are you preparing?

To be a computer engineer in the area of interdisciplinary medical image analysis and processing

List relevant work or teaching experience

1) Please list: Job Title, Employer, Dates

[REDACTED]
Position: Data Analyst

Responsibility: Collecting and collating user data in the system by using Excel;
Completing visual analysis of user data by using python;
Conducting user data analysis report, etc.

2) Please list: Job Title, Employer, Dates

[REDACTED]
Position: Programmer

Responsibility: Programming, code writing, and unit testing;
Being engaged in process of website frame development

3) Please list: Job Title, Employer, Dates

[REDACTED]
Position: System Architect

Project Taken: OA project (adjustment of OA process and organizational structure) and Human Attendance System Project
Responsibility: system docking and system structure adjustment of the above projects

4) Please list: Job Title, Employer, Dates

No Answer

List the titles of any articles, publications, inventions, or creative work you have completed.

1.Title: [REDACTED] 10/2022

Author name(s): [REDACTED]

Abstract: The paper demonstrate the handwritten number recognition system through the image processing algorithms and image binarization method in detail. Introduces the meaning and generalization of the handwritten number recognition system. The results from the analysis show that the proposed image processing method for handwritten number recognition is effective.

Publish: The paper has been accepted by the 2022 6th International Conference on Electronic Information Technology and Computer Engineering [REDACTED] will be published on ACM-International Conference Proceedings Series [REDACTED]

List the academic honors, prizes, or awards you have received.

1. University scholarship for excellent international student \$9000/semester

A scholarship awarded to international student who behave excellently in academic performance for consecutive school years.

2. [REDACTED] 2016 Gold Medal of Senior High School Groups

An award for outstanding groups with creative idea and innovative creation after three round competitions, and finally obtaining opportunity for [REDACTED] competition in USA.

3. [REDACTED] First Prized in USA

An award for outstanding groups in robot design, and our design is “search and rescue robot for water situation”.

List any professional licensure(s).

No Answer

List your participation in any extracurricular activities.

[REDACTED] Instrument Based Pirate Fantasy Game Design 09/2020

Game Story: You are a bard in a pirate band. Bad pirates steal all your instruments. They are now too depressed to head to crystal cove to get the treasure. You must go through a level to each pirate that stole one of the instruments.

My role: In charge of enemy programming, just searching unity tutorials online is a great place to start. I'd personally recommend the Unity docs, as they tell you what every function does.

Technique Used: C#

List any organizations or community activities in which you have been active.

No Answer

| Attachment | Type | Description | Uploaded By |
|-------------------|-------------|--------------------|--------------------|
|-------------------|-------------|--------------------|--------------------|

There are no current attachments

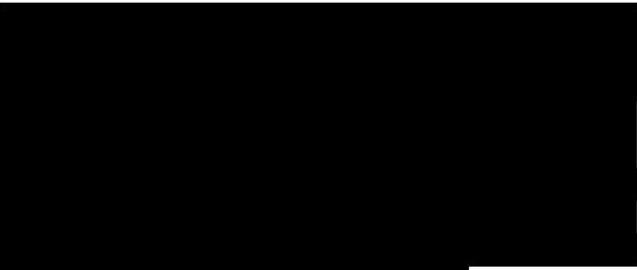
ABSTRACT



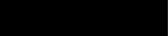
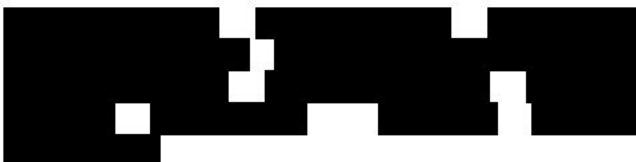
KEYWORDS



1 Introduction

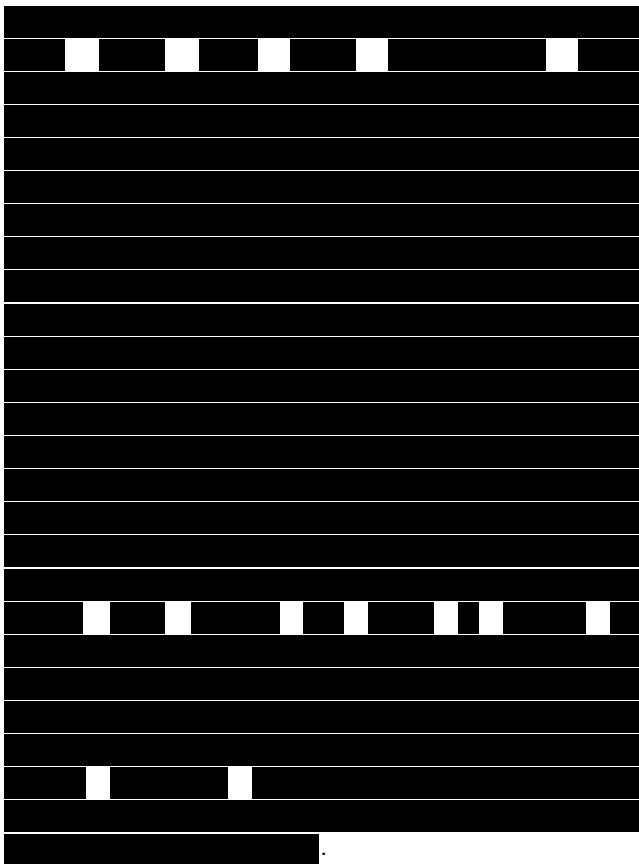


CCS CONCEPTS

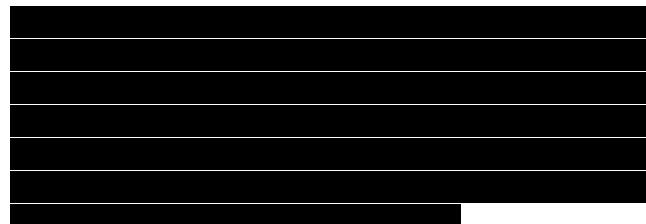


2 System recognition process



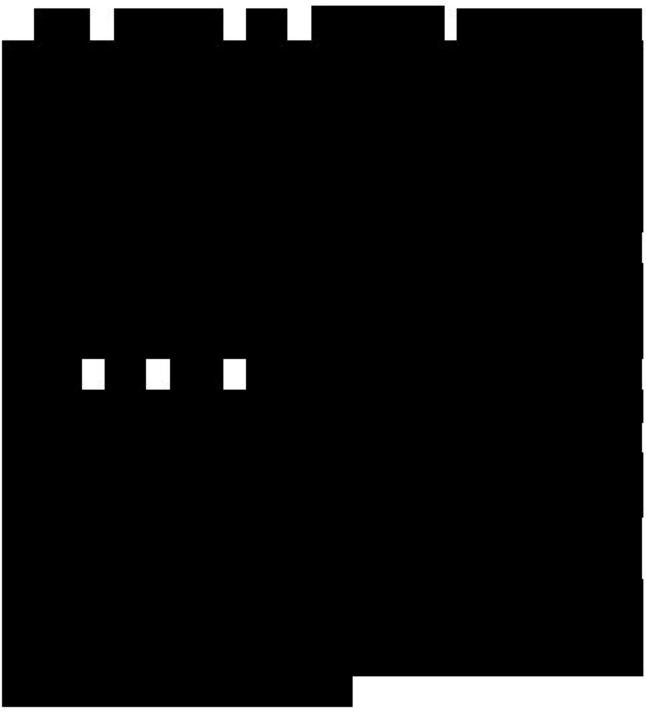
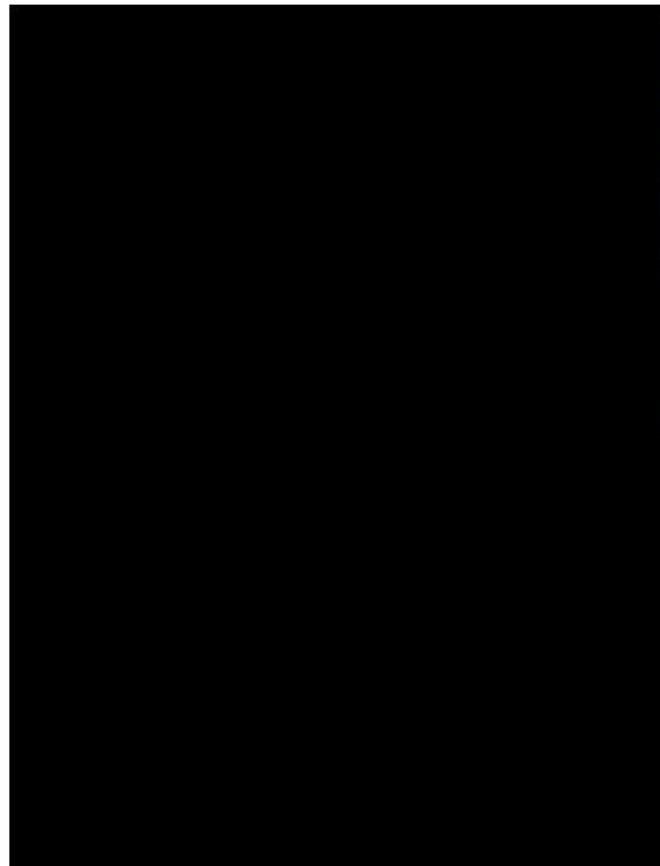
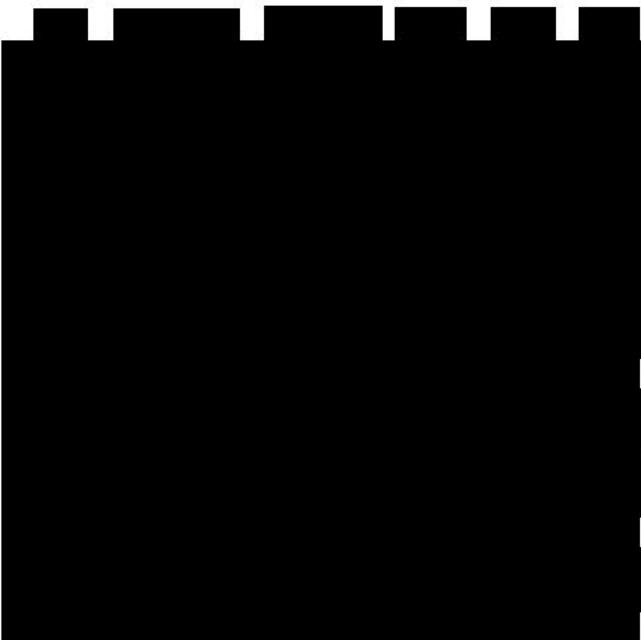
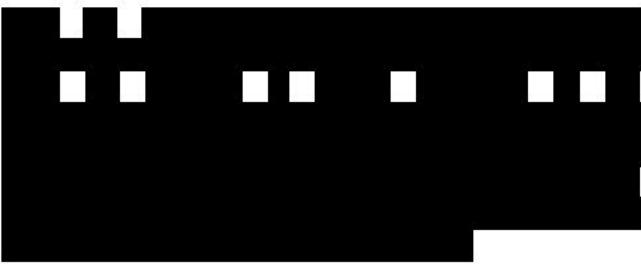


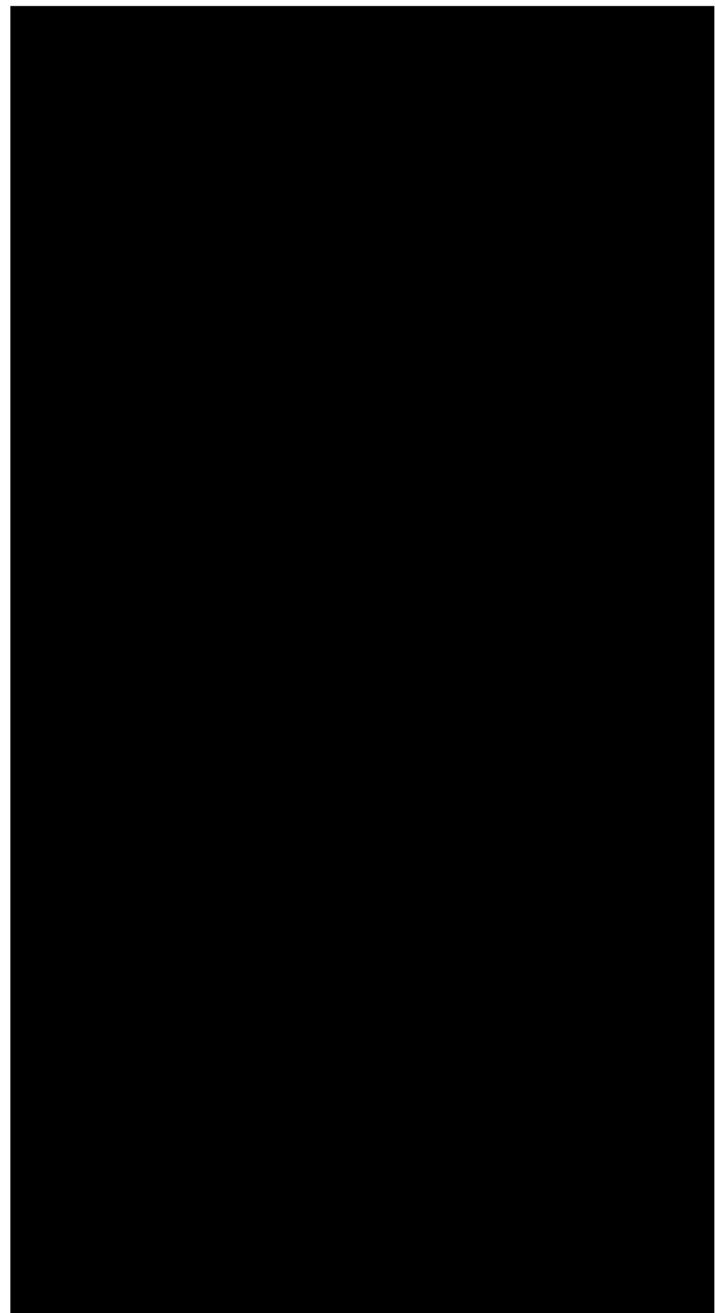
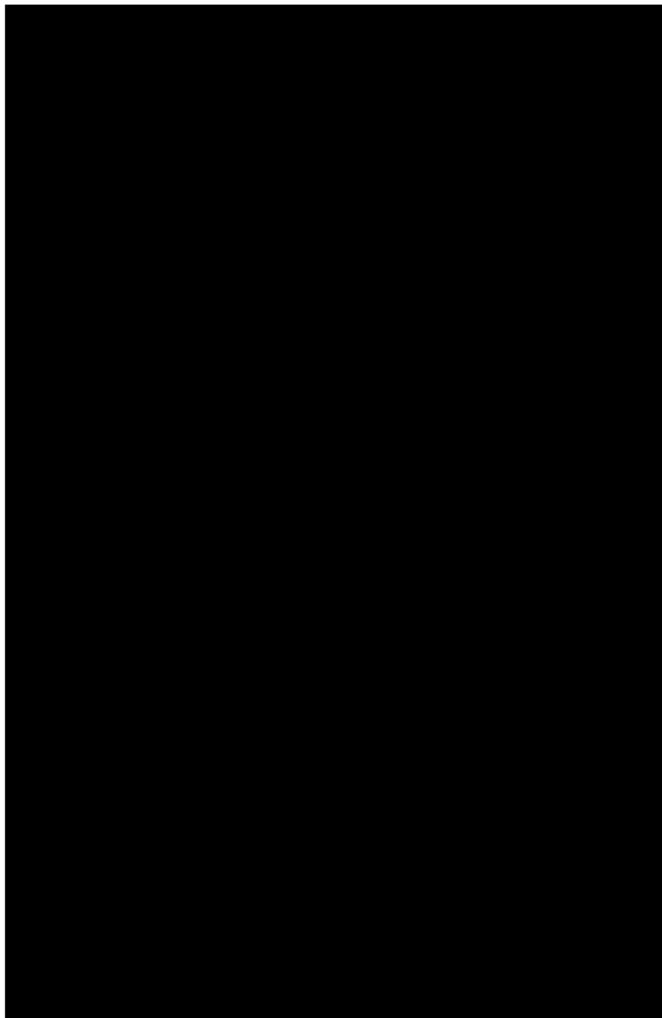
2.1 Input Image

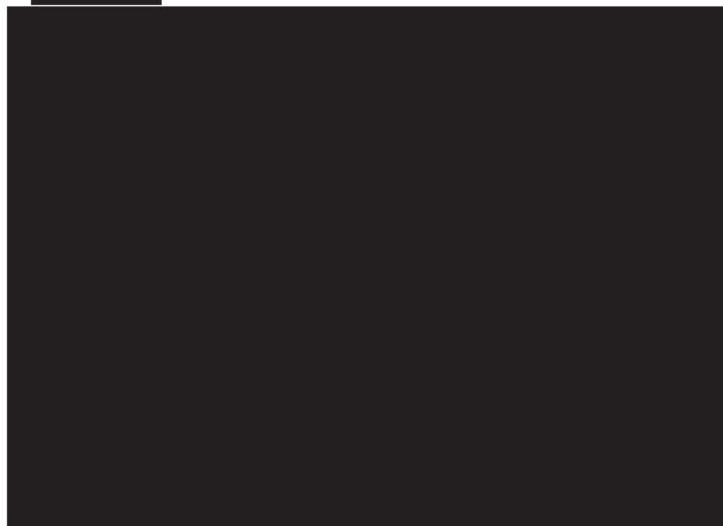


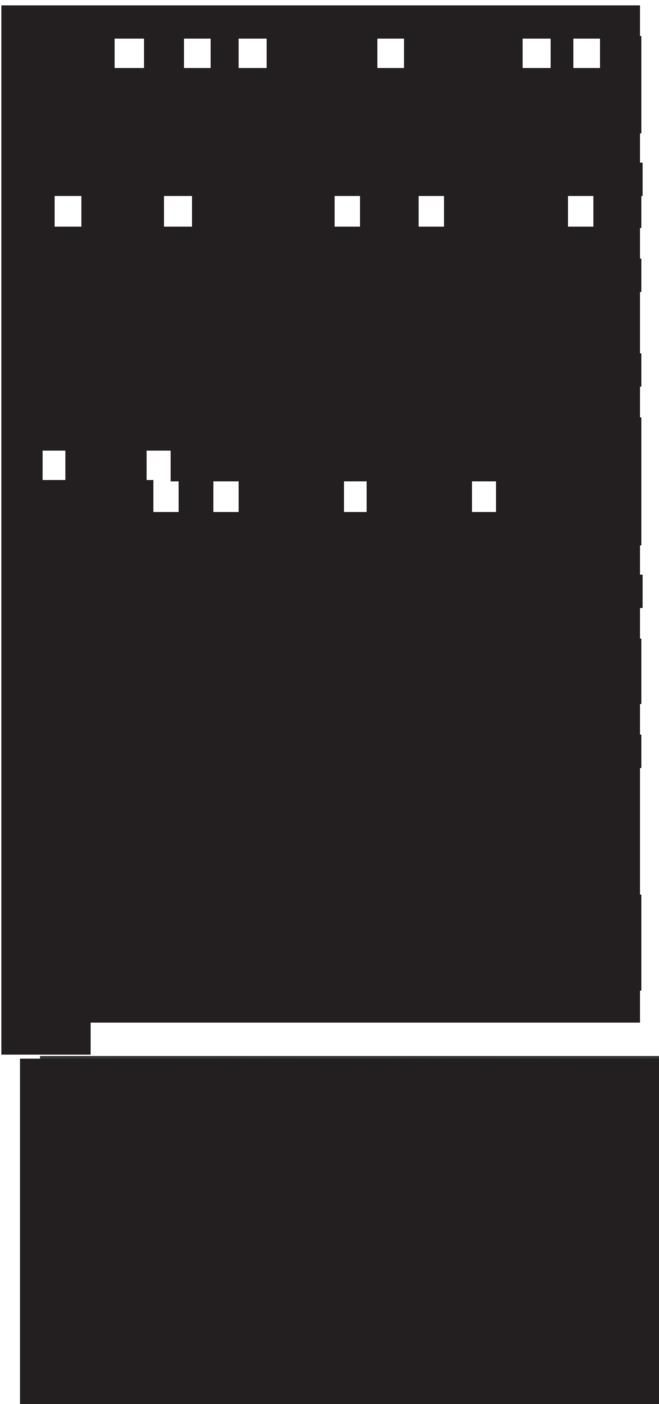
2.2 Image preprocessing

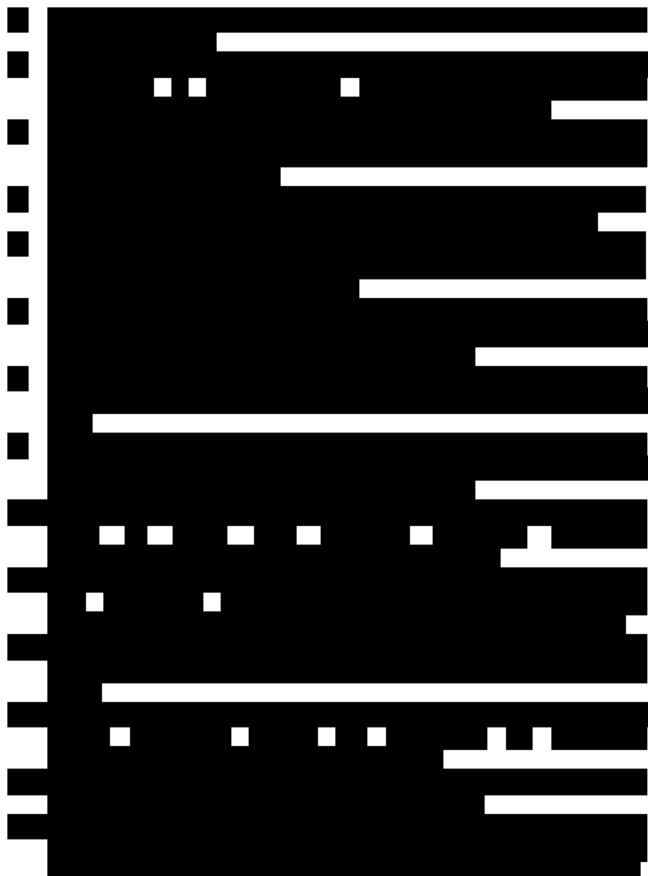












1. Introduction

[REDACTED]

2. Related Works

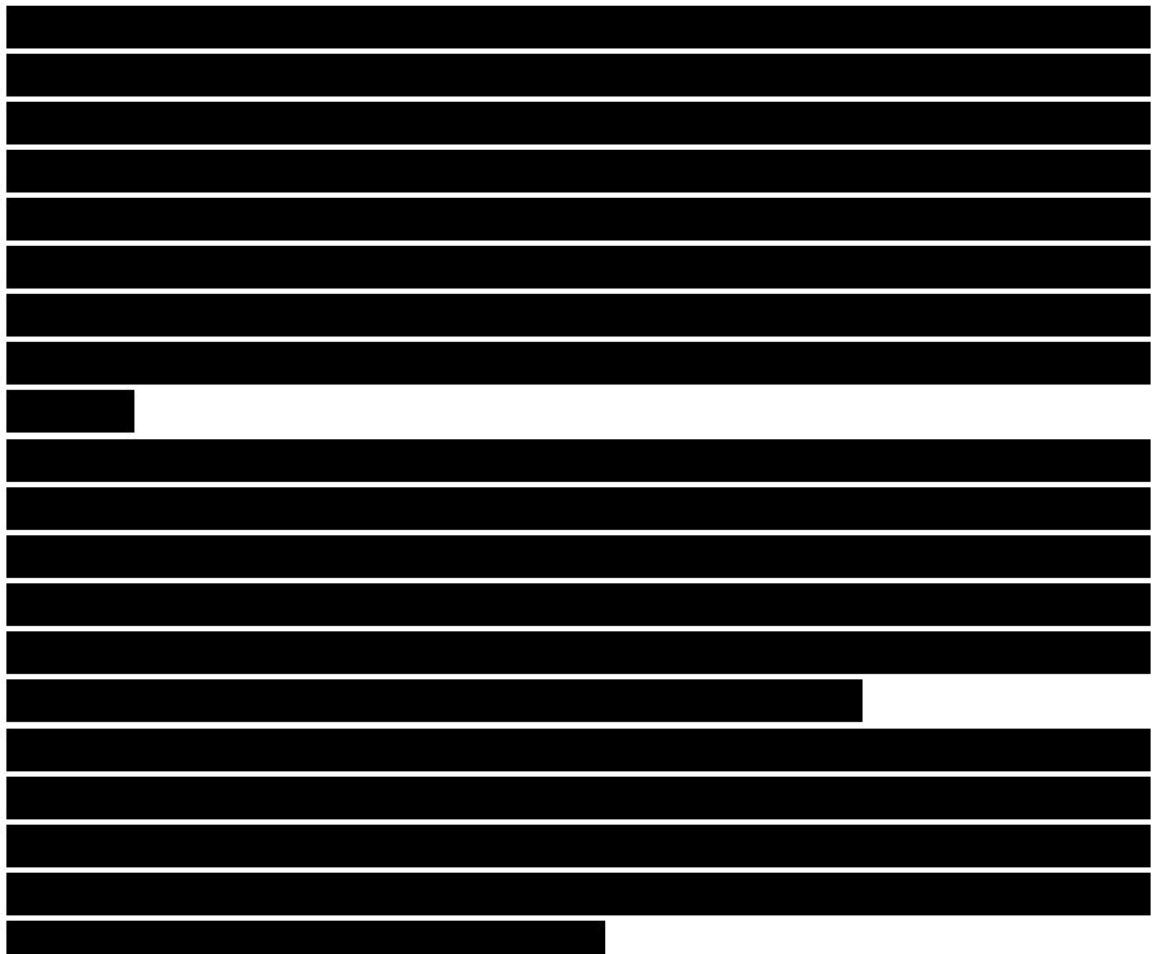
[REDACTED]

2.1 Medical Image Segmentation

[REDACTED]



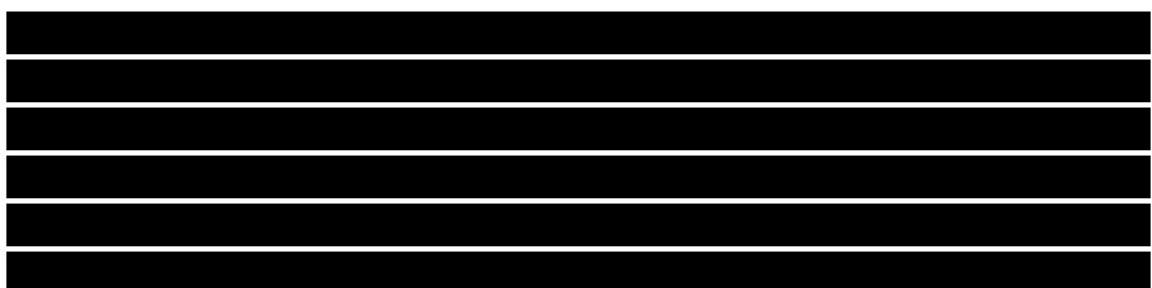
2.2 Medical Image Registration



3. Research Approach



Transfer Learning for Medical Image Processing



[REDACTED]

4. Research Plan

| | | |
|------------|------------|------------|
| [REDACTED] | [REDACTED] | [REDACTED] |

[REDACTED]

[REDACTED]
Oct.2022
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Graduate College Application for Admission

Some online applications require the payment of an application fee. Any application fee can only be paid by Visa, Mastercard, or Discover.

Note: Your application has been submitted. You can review your application, but no further changes can be made.

A. Personal Information

Fields with a red asterisk(*) are required.

List your name as you would like it to appear on all University records. If you are an international student, you **MUST** list your name as it appears on your passport. (Submit a copy of your passport, if available, to The University of Iowa, 108 Calvin Hall, Iowa City, IA 52242-1396.) This is the name that must be used on all University of Iowa records.

*Last Name:

 (family or surname)

*First Name:

Preferred First Name:

Middle Name:

Suffix:

Other Last Name(s) or Surname(s), if any, that may appear on transcripts, documents, scores, etc.

Other Last Name(s) or Surname(s):

*Sex:

 Male

Gender (select all that apply):

Click here for more information.

- Agender
- Cisgender
- Man
- Non-binary

- Transgender
 Woman
 Another gender not listed above
 Prefer not to answer

* Country of Citizenship:

* Are you a permanent resident (green card holder) of the U.S.? Yes No

List your current immigration status, if applicable:

If other, please specify:

* Which immigration status do you intend to hold while enrolled at The University of Iowa:

If other, please specify:

Country of Legal Permanent Residence:

(if country of citizenship differs from your country of legal permanent residence)

* What is your first language:

Describe the preparation and proficiency you have in other languages (please be specific).

Agency:

If your application is being submitted as part of an approved Sponsoring Agency or through an official University of Iowa Exchange Program please indicate.

Social Security Number: (nnnnnnnnnn)

Your Social Security Number will be used to verify your identity for record-keeping purposes and to help match transcripts and other materials with your admission application. It will not be used as your University ID number. Social Security number is required if you plan to apply for financial aid through The University of Iowa Office of Student Financial Aid. Your Social Security Number will be safeguarded by the University and will not be displayed on official records or made available to others.

* Birthdate:

[REDACTED] [REDACTED] [REDACTED] (yyyy)

* Birth City:

[REDACTED]

Birth State (if U.S.):

[REDACTED]

* Birth Country:

CHINA

Phone:

[REDACTED] - [REDACTED] - [REDACTED] (US)

[REDACTED] (International)

Cell Phone:

[REDACTED] - [REDACTED] - [REDACTED] (US)

[REDACTED] (International)

Alternate Phone:

[REDACTED] - [REDACTED] - [REDACTED] (US)

[REDACTED] (International)

* Email:

[REDACTED]

The Office of Admissions uses email as an official means of communication regarding your application and admissions status. Be sure your email is entered correctly.

Current mailing address

You will receive correspondence at your current mailing address from August 15 through May 15. From May 16 through August 14 your home address will be used.

International students will receive correspondence at their current mailing address at all times.

Complete the addresses below as you would address an envelope to be mailed to yourself.

International students residing in the United States must give a non-PO Box Address.

If your address changes, please notify the Office of Admissions and the department.

* Address Line 1:

[REDACTED]

Address Line 2:

* City:

[REDACTED]

State (if U.S.):

[REDACTED]

Zip (if U.S.):

[REDACTED]

Foreign Postal Code:

[REDACTED] [REDACTED]

* Country:

Foreign Province:

Home (permanent) address

*Address Line 1:

Address Line 2:

*City:

State (if U.S.):

Zip (if U.S.):

Foreign Postal Code:

*Country:

 CHINA

Foreign Province:

Permanent Address (Outside the U.S.)

*Address Line 1:

Address Line 2:

Address Line 3:

*City:

Foreign Province:

Foreign Postal Code:

*Country:

Graduate College Application for Admission**B. Admission Information**

Note: Your application has been submitted. You can review your application, but no further changes can be made.

* For which session are you applying? Be sure to check your program's deadline.

List your intended department or graduate program of study and your entering degree objective. You may apply to only one program unless you are applying to a Combined Degree Program.

* Department or Program:

Area of interest or specialization:

* Degree:

Graduate College Application for Admission

C. Education Information

Note: Your application has been submitted. You can review your application, but no further changes can be made.

List all post-secondary institutions (undergraduate, graduate or professional level) you have attended or in which you are currently enrolled. Be sure to read the application instructions for pertinent information about transcripts.

College 1 Information

College Code:

Name of Institution:

City:

State:

Country:

Dates of Attendance:

 -

Include anticipated begin and end dates. Note: Your end date should not go past your anticipated starting date at Iowa.

List any earned or expected to earn major(s), degree(s) and degree date(s) from college 1 before enrolling at Iowa.

Major:

Degree:

Date:

 (yyyy)

Major:

Degree:

Date:

 (yyyy)

Major:

Degree:

Date:

 (yyyy)

College 2 Information

College Code:

Name of Institution:

City:

State:

Country:

UNITED STATES

Dates of Attendance:

September 2017 - July 2021

Include anticipated begin and end dates. Note: Your end date should not go past your anticipated starting date at Iowa.

List any earned or expected to earn major(s), degree(s) and degree date(s) from college 2 before enrolling at Iowa.

Major:

Computer Science

Degree:

Bachelor of Science

Date:

July 2021 (yyyy)

Major:

Degree:

Date:

Major:

Degree:

Date:

Provide your undergraduate and graduate cumulative grade-point average (GPA) and grading scale. As an international student, if you attended a US institution for Undergraduate or Graduate study, please complete this section. Otherwise, please leave this section blank.

Undergraduate GPA:

3.5

Scale: 4.0

Graduate GPA:

3.556

Scale: 4.0

For example, 3.22 on a 4.00 scale. If your institution did not use a 4.00 grading scale, provide your overall grade average and the scale used (e.g., 8.5 on a 10 scale, 65% on a 100 scale; Second Class First Division).

Standardized Test Information

Applicant should check program requirements prior to application submission. Not all exams are required for all programs.

GRE Information

Date taken/planned:

October 2020 (yyyy)

Verbal score:

168

Quantitative score:

170

Analytical writing score:

3.5

Subject test:

Subject score:

GMAT Information

Date taken/planned:

| | |
|-------------------------------|----------------------|
| Verbal score: | <input type="text"/> |
| Verbal score %: | <input type="text"/> |
| Quantitative score: | <input type="text"/> |
| Quantitative score %: | <input type="text"/> |
| Total score: | <input type="text"/> |
| Integrated Reasoning score: | <input type="text"/> |
| Integrated Reasoning score %: | <input type="text"/> |
| Analytical writing score: | <input type="text"/> |

TOEFL Information

| | |
|---------------------------------|--|
| Date taken/planned: | <input type="text"/> / <input type="text"/> (yyyy) |
| Exam Type: | <input type="text"/> |
| Listening score: | <input type="text"/> |
| Writing score: | <input type="text"/> |
| Reading score: | <input type="text"/> |
| Speaking score (if applicable): | <input type="text"/> |
| Total score: | <input type="text"/> |

IELTS Information

[Click here for more information.](#)

| | |
|---------------------|--|
| Date taken/planned: | <input type="text"/> / <input type="text"/> (yyyy) |
| Listening score: | <input type="text"/> |
| Reading score: | <input type="text"/> |
| Writing score: | <input type="text"/> |
| Speaking score: | <input type="text"/> |
| Total score: | <input type="text"/> |

Graduate College Application for Admission

D. Residency Information

Note: Your application has been submitted. You can review your application, but no further changes can be made.

This section is for domestic students only. Please proceed to Section E.

Graduate College Application for Admission**E. Additional Information**

Note: Your application has been submitted. You can review your application, but no further changes can be made.

Please select the best relationship description and highest level of education attained for your parents or guardians by whom you were raised. This question allows the University of Iowa to better identify first-generation college students. A first-generation student is a student who does not have a parent or legal guardian who has earned a 4-year degree (e.g. B.A., B.S.). The University of Iowa aims to celebrate and support students who are the first in their family. Learn more about First Generation Students and Initiatives at Iowa.

* Parent/Guardian Relationship 1:

* Parent/Guardian Education Level 1:

Parent/Guardian Relationship 2:

Parent/Guardian Education Level 2:

How did you learn about The University of Iowa?

Graduate College Application for Admission**F. Certification**

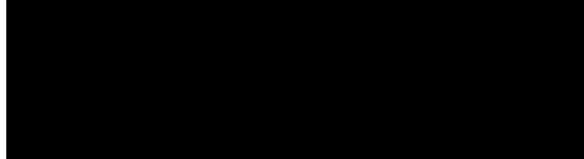
Note: Your application has been submitted. You can review your application, but no further changes can be made.

By entering my name below I certify that to the best of my knowledge all the information given on this application is correct and complete, and I understand that any omission or misinformation concerning enrollment in other colleges or universities or any other material omission or misinformation may void my admission or result in dismissal.

* Name:

The University of Iowa prohibits discrimination in employment, educational programs, and activities on the basis of race, creed, color, religion, national origin, age, sex, pregnancy, disability, genetic information, status as a U.S. veteran, service in the U.S. military, sexual orientation, gender identity, associational preferences, or any other classification that deprives the person of consideration as an individual. The university also affirms its commitment to providing equal opportunities and equal access to university facilities. For additional information on nondiscrimination policies, contact the Director, Office of Equal Opportunity and Diversity, the University of Iowa, 202 Jessup Hall, Iowa City, IA, 52242-1316, 319-335-0705 (voice), 319-335-0697 (TDD), diversity@uiowa.edu. The University requests this information for the purpose of processing your application for admission. Persons outside the University are not routinely provided this information except for directory information, such as name and local address. Although responses to items marked "optional" are optional, responses to all other items are required in order for us to take action.

Official Academic Transcript from:



TELEPHONE: 

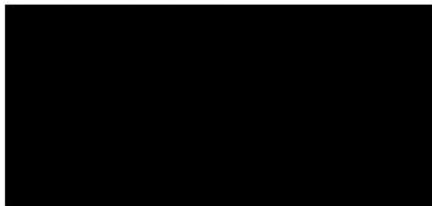
Official Academic Transcript of:



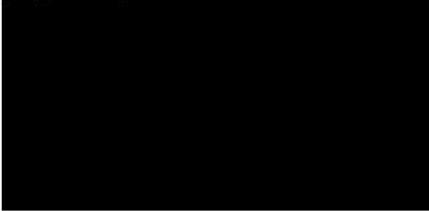
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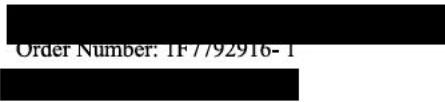
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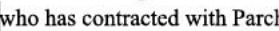
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Course Grading Scale

| Grade | GPA | Meaning |
|-------|------|---|
| A | 4.00 | Excellent |
| A- | 3.67 | |
| B+ | 3.33 | |
| B | 3.00 | Good |
| B- | 2.67 | |
| C+ | 2.33 | |
| C | 2.00 | Fair |
| C- | 1.67 | |
| D+ | 1.33 | |
| D | 1.00 | Poor |
| F | 0.00 | Failure |
| P | | Pass (P/F graded courses only) |
| ABS | | Absent |
| INC | | Incomplete |
| IP | | In Progress (800 & 900 level courses only) |
| W | | Withdrawn |
| NG | | No Grade (Used by the Registrar when a grade is expected but not available) |
| S | | Satisfactory |
| U | | Unsatisfactory |

Prior to 2009 Spring, +/- grading was not applicable to Graduate courses. Also, the grades of "D+" and "D" are not applicable to Graduate courses. Credit basis is Semester-Hours

Honors

The undergraduate Degree with Honor is conferred if you achieve a grade point average of 3.2 for courses required for the degree; the Degree with High Honor is conferred if you achieve a grade point average of 3.6 or higher for courses required for the degree.

General Course Numbering Policy

| Prefix | Discipline |
|---------|---|
| 0-99 | Pre-College/Non-College credit |
| 100-199 | Freshman |
| 200-299 | Sophomore |
| 300-399 | Junior |
| 400-499 | Senior |
| 500-599 | Entry-level graduate courses. Upper level undergraduates, in good standing, can enroll in 500 level courses, except for courses with MGT and TM prefixes, without special permission. MGT and TM prefixed courses require special permission. |
| 600-799 | Core level graduate courses. Upper level undergraduates, in good standing, can enroll in 600 level courses only with the permission of the instructor or advisor. |
| 800-899 | Special Problems graduate courses. |
| 900-999 | Research Level graduate courses. |

Course Repetition Policy

When a student retakes a course, the new replaces the old grade for purposes of calculating the GPA. However, the earlier attempt at the course remains on the transcript with the grade earned as well as a note indicating that the course was repeated.

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Name: [REDACTED]
Birthdate (MM/DD): [REDACTED]
Print Date: [REDACTED]
Student ID: [REDACTED]
Institution ID: [REDACTED]
Page: [REDACTED]

1 of 1

Send To:

[REDACTED]
Beginning of Graduate Record

Fall 2021

Master of Science
Major: Computer Engineering

| | | | |
|------------------------------------|-------------|-----|----|
| ADVANCED HARDWARE DESIGN | ECE-GY 6463 | 3.0 | A- |
| Introduction to VLSI System Design | ECE-GY 6473 | 3.0 | A |
| Real Time Embedded Systems | ECE-GY 6483 | 3.0 | B |

| | AHRS | EHRS | QHRS | OPTS | GPA |
|------------|------|------|------|--------|-------|
| Current | 9.0 | 9.0 | 9.0 | 32.001 | 3.556 |
| Cumulative | 9.0 | 9.0 | 9.0 | 32.001 | 3.556 |

Spring 2022

Master of Science
Major: Computer Engineering

| | | | |
|-------------------------------------|-------------|-----|----|
| Digital Signal Processing I | BE-GY 6403 | 3.0 | B+ |
| VLSI System and Architecture Design | ECE-GY 6443 | 3.0 | A- |
| Computing Systems Architecture | ECE-GY 6913 | 3.0 | A- |

| | AHRS | EHRS | QHRS | OPTS | GPA |
|------------|------|------|------|--------|-------|
| Current | 9.0 | 9.0 | 9.0 | 32.001 | 3.556 |
| Cumulative | 18.0 | 18.0 | 18.0 | 64.002 | 3.556 |

Fall 2022

Master of Science
Major: Computer Engineering

| | | | |
|--------------------------------------|-------------|-----|-----|
| APPLIED MATRIX THEORY | ECE-GY 5253 | 3.0 | --- |
| MACHINE LEARNING | ECE-GY 6143 | 3.0 | --- |
| Digital Signal Processing Laboratory | ECE-GY 6183 | 3.0 | --- |

| | AHRS | EHRS | QHRS | OPTS | GPA |
|------------|------|------|------|--------|-------|
| Current | 9.0 | 0.0 | 0.0 | 0.000 | 0.000 |
| Cumulative | 27.0 | 18.0 | 18.0 | 64.002 | 3.556 |

End of Graduate Record

**ACADEMIC
TRANSCRIPT**

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and is imposed upon the
institutional seal.