November 12, 2020



ACN Program Head:Professor Richard Golden



ACN Academic Support Officer: Melanie Davis



Dean of the School of Behavioral and Brain Sciences: Dean Small



Associate Dean of Graduate Studies in the School of Behavioral and Brain Sciences:

Professor Stillman



The Applied Cognition and Neuroscience Program is very excited that you have chosen to continue your advanced training in this area with us!

Our goal is to not only maximize your learning experience but also prepare you to pursue new career directions once you graduate!

In addition, we will do our best to make this process fun and enjoyable!!

Cognition



Cognition



Neuroscience



Creative Commons
https://www.flickr.com/photos/biologycorner/4018079840/in/parasis-78866-277666-46788-45786-178656-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865-179865

Cognition



Neuroscience



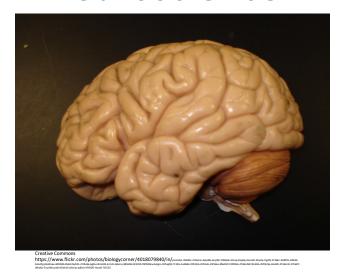
Neurological Diagnosis and Monitoring



Cognition



Neuroscience



Neurological Diagnosis and Monitoring



Human Computer Interactions

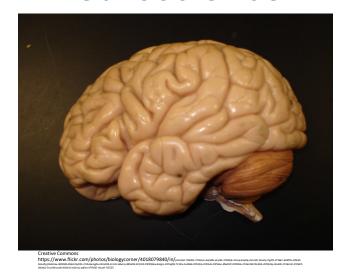


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Cognition



Neuroscience



Neurological Diagnosis and Monitoring



Human Computer Interactions



Computational Modeling and Machine Learning



Overview of ACN Program - Objectives

Multidisciplinary Program:

• Emphasizes novel integrations of neuroscience, psychology, computer science, and human-centered design.



Overview of ACN Program - Objectives

Multidisciplinary Program:

- Emphasizes novel integrations of neuroscience, psychology, computer science, and human-centered design.
- Understanding Brain and Mind requires multidisciplinary perspective.



- Five Specialization Areas:
 - Neuroscience

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 - Neuroscience
 - Cognition and Neuroscience

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- Neuroscience
- Cognition and Neuroscience
- Human-Computer Interactions

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- Neuroscience
- Cognition and Neuroscience
- Human-Computer Interactions
- Neurological Diagnosis and Monitoring

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- Neuroscience
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- Human-Computer Interactions
- Neurological Diagnosis and Monitoring
- Computational Modeling/Machine Learning

Five Specialization Areas:

- Neuroscience
- Cognition and Neuroscience
- Human-Computer Interactions
- Neurological Diagnosis and Monitoring
- Computational Modeling/Machine Learning

• Each ACN student must declare exactly one specialization area.

- Individual student curricula may integrate multiple specialization areas.
- You may modify your choice of specialization area at any time.

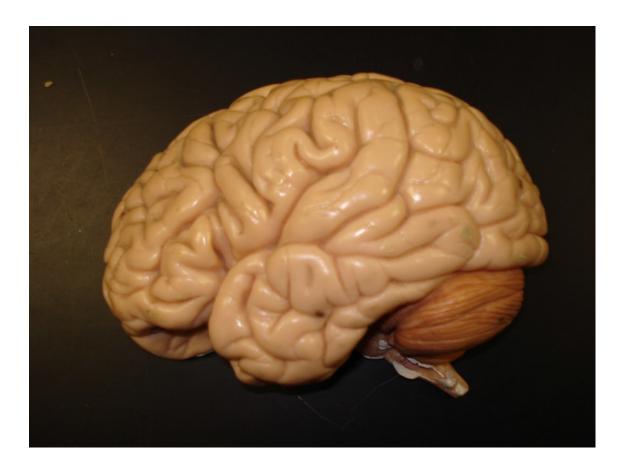
Neuroscience Specialization Area

Core Coursework:

- Systems Neuroscience
- Functional Neuroanatomy
- Cellular Neuroscience

Advanced Coursework

- Neuropharmacology
- Functional Brain Imaging Lab
- Brain Connectivity
- Aging and Nervous System
- Neurobiology of Learning and Memory
- Neuroscience of Pain
- Neuroplasticity and Disorders



Neuroscience Career Paths

 Training in the field of Neuroscience by internationally recognized leading scientists.

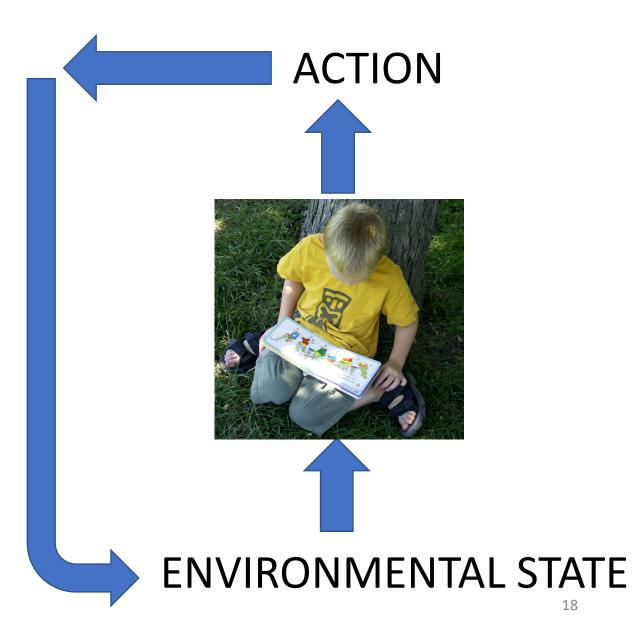
- Career opportunities:
 - Medical School
 - PhD Programs in Neuroscience
 - Clinical Programs in Health-Related Areas
 - Neuropharmacology (research/business-related)
 - Health Services/Clinical Related Career Direction



Cognition Specialization Area

- Core Coursework
 - Cognitive Psychology

- Advanced Coursework
 - Speech Perception
 - Memory
 - Attention



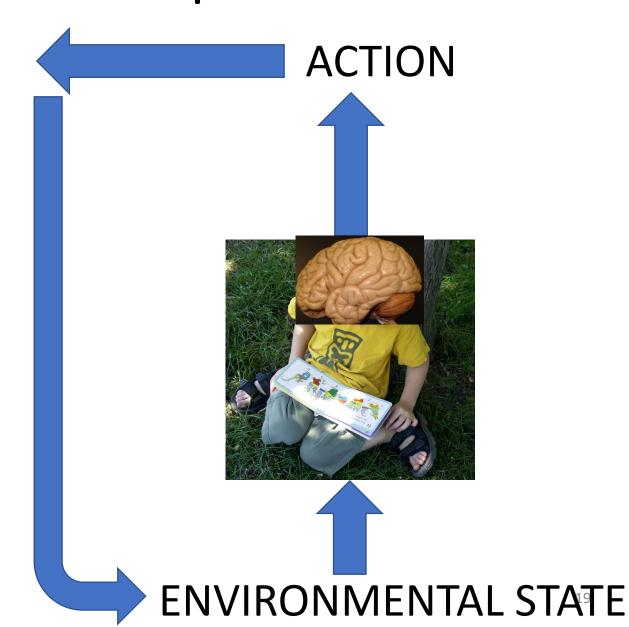
Cognition and Neuroscience Specialization Area

Core Coursework

- Cognitive Psychology
- Systems Neuroscience
- Functional Neuroanatomy

Advanced Coursework

- Speech Perception
- Cognitive Science
- Memory
- Attention
- Cognitive Science
- Cognitive-Neuroscience of Memory
- Neural Correlates of Human Cognition



Cognitive-Neuroscience Career Paths

• Training in Cognitive Science and Cognitive-Neuroscience by internationally recognized leading scientists.

- Career opportunities:
 - Medical School
 - PhD Programs in Neuroscience, Psychology, and Cognitive Science
 - Clinical Programs in Health-Related Areas
 - Neuropsychology (research and clinical directions)
 - Neuropharmacology (research and business-related positions)
 - Health Services/Clinical Related Career Direction

Neurological Diagnosis and Monitoring Specialization Area

Core Coursework:

- Systems Neuroscience
- Functional Neuroanatomy
- Neurophysiology
- Intraoperative Neurophysiological Monitoring I
- Intraoperative Neurophysiological Monitoring II

Advanced Coursework

- Special Topics in Neurophysiological Monitoring
- Neuropharmacology
- Functional Brain Imaging
- Brain Connectivity
- Aging and Nervous System
- Neurobiology of Learning and Memory
- Neuroscience of Pain
- Neuroplasticity and Disorders



Neurological Diagnosis and Monitoring Specialization Area

Core Coursework:

- Systems Neuroscience
- Functional Neuroanatomy
- Neurophysiology
- Intraoperative Neurophysiological Monitoring I
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Advanced Coursework

- Special Topics Neurophysiological Monitoring
- Neuropharmacology
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- Neurobiology of Learning and Memory
- Neuroscience of Pain
- Neuroplasticity and Disorders



Students with relevant neuroscience
Background may take the Advanced
Seminar Neurophysiological Monitoring
Without taking IONM 1 if they have
consent of the instructor.

UTD has a reputation in this area.
 One of the founders of this field, Professor Moller, teaches at UTD.

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- Our program provides you with the training to pass the national IONM exam as well as provide advanced training to support an IONM career. Our program does not provide the clinical hours of IONM experience required to take the exam.

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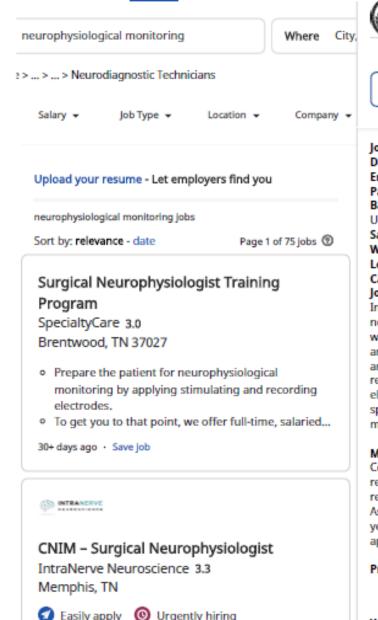
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- IONM companies often provide clinical training to support clinical IONM certification.
- Career opportunities include both technician positions as well as managerial positions.

IONM Jobs

Key words for "indeed.com" search

- Neurophysiological monitoring
- Intraoperative monitoring
- Neurodiagnostic

Average Salary \$50K to \$100K based upon experience





Intra-operative Monitoring (IOM) Technician

SUNY Upstate Medical University 112 reviews - Syracuse, NY

Apply On Company Site



lob no: IOM Technician

Department: Neurosurgery - IOM Employer: State of New York

Payroll Title: TH CTS EEG Associate, NSSL2

Bargaining Unit: UUP (State University Professional Services

Unit

Salary: Commensurate with Qualifications

Work type: Full-time Location: Syracuse Categories: Allied Health

Job Summary:

Intraoperative Monitoring (IOM) Technicians perform neurophysiological monitoring in the operating room to assist with assessing the functional integrity of the peripheral and/or central nervous system during vascular, orthopedic and neurosurgical operative procedures. Procedures recorded by the technologist include, but are not limited to, electroencephalograms, evoked potentials, compressed spectral array, electrocorticography, and topographic brain mapping.

Minimum Qualifications:

Certification for Neurophysiological Monitoring (CNIM) required. *Candidates who possess an Associate's degree in relevant field and one year of related experience OR an Associate's degree in relevant field and no experience OR one year of relevant healthcare experience will be considered for appointment to a trainee position at a commensurate salary.

Preferred Qualifications:

Work Days:

Human-Computer Interaction Specialization Area

(Usability Engineering)

What is Usability Engineering?

Usability engineering is a field that is concerned generally with human-computer interaction and specifically developing human-computer interfaces that have high **usability** or user friendliness.

Usability engineering uses behavioral science research methodologies to evaluate how specific subpopulations interact with technology (e.g., websites, smart phones, voice user interface systems).



Human-Computer Interaction Specialization Area (Usability Engineering)

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Resources for learning more about HCI:

https://www.usabilitysciences.com/blog

https://jnd.org/

https://www.nngroup.com/

https://bigdesignevents.com/

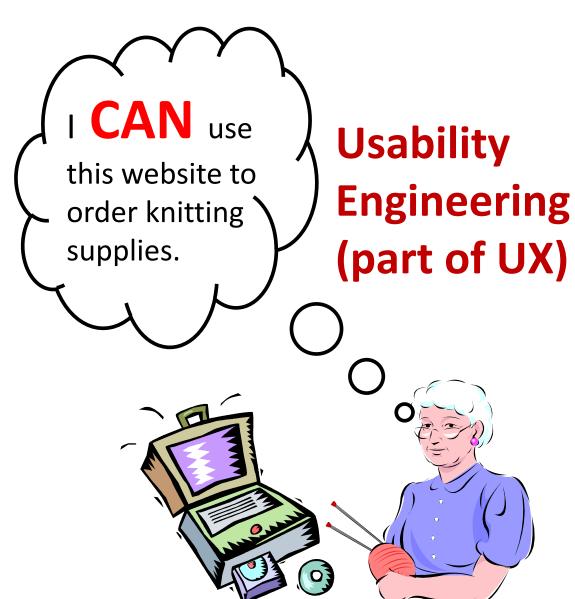
https://cs.utdallas.edu/people/faculty/mcmahan-ryan/

https://atec.utdallas.edu/content/nazir-cassini/

Human-Computer Interaction Specialization Area (User Experience (UX))

What is User Experience (UX)?

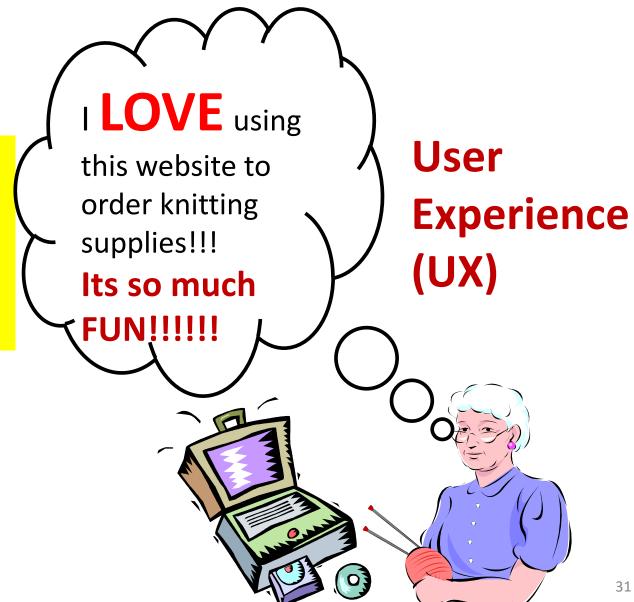
- Usability Engineering
- Has Functional Value
- Has Aesthetic Value



Human-Computer Interaction Specialization Area (User Experience (UX))

What is User Experience (UX)?

- Usability Engineering
- Has Functional Value
- Has Aesthetic Value



Human-Computer Interaction Specialization Area

(Usability Engineering/UX)

Core Coursework

- Cognitive Psychology
- Foundations of HCI (HCI 1)
- Applied HCI (HCI 2)
- HCI Lab (prerequisite: Applied HCI/HCI 2)
- Research Methods 1
- Research Methods 2

Advanced Coursework

- Cognitive Ethnography
- Speech Perception Lab
- Memory
- Attention
- Software Development



Human-Computer Interaction Specialization Area

(Usability Engineering/UX)

Core Coursework

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UTD UX Club

Big Design Conference (Every Fall)

ATEC (Arts and Technology) Labs and Studios

Human-Computer Interaction Specialization Area (Usability Engineering/UX)

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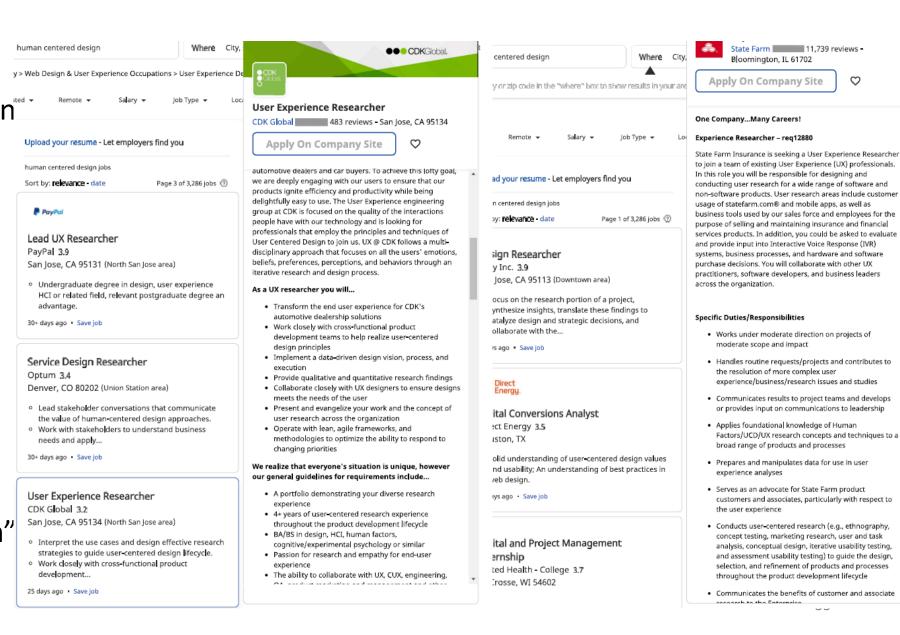
Note: Usability Engineering does not necessarily require advanced software development skills but you must be able to interface with software developers. Familiarity with HTML and CSS a definite plus!!!

Note: UX positions may require both Usability Engineering skills AND additional skills like software development, artistic design, or managerial skills.

UX and Usability Engineering Career Paths

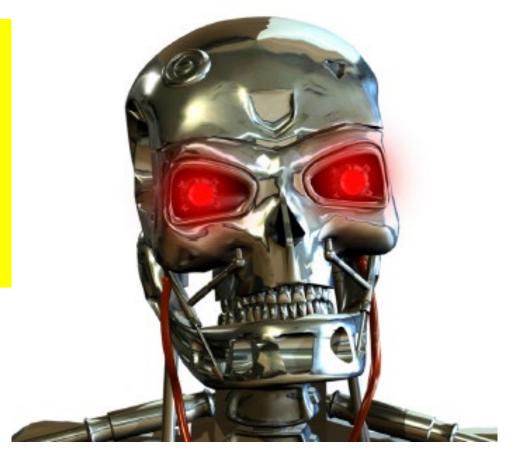
Salaries range from \$50K to \$125K based upon experience for Usability Engineer or User Experience (UX) Engineer

See "indeed.com" with keywords:
"UX"
"Usability Engineering"
"Human Centered Design"



Computational Modeling/Machine Learning

Implement "Smart"
Algorithms using
Machine Learning Software
Development Environments.



Computational Modeling/Machine Learning

 Use Machine Learning Algorithms to Analyze Cognitive-Neuroscience Data

 Develop and Evaluate Machine Learning Algorithms as Behavioral or Neural Information Processing Models



- Core Coursework:
 - Computational Models (ACN5314) (Spring 2022, Spring 2024)
 - Research Methods 2
- Advanced Coursework
 - Neural Network Math (Fall 2022, Fall 2024)
 (prerequisite: Linear Algebra, Calculus-based Probability Theory)
 - Statistical Machine Learning (prerequisite: Neural Net Math) (Spring 2023, Spring 2025)
 - Multivariate Data Analysis (Fall 2021, Fall 2022, Fall 2023) (prerequisite: Research Methods 2) [Limited Enrollment]
 - Multivariate Data Analysis using R (Fall 2021, Fall 2022, Fall 2023) (note both multivariate data analysis courses must be taken at same time. Also note that there are very limited number of seats available for this pair of classes)



NOTE: Students
In this area typically
Enter the program
with intermediate/ advanced
Computer programming
Skills and strong math
Backgrounds.

In order to have a successful career in this area you MUST have strong computer programming skills and familiarity with one or more machine learning development languages. For more details: https://www.learningmachines101.com/lm101-078-ch0-how-to-become-

a-machine-learning-expert/



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Taking graduate level computer science courses as part of your degree plan is also valuable. Computer Science has several great graduate machine learning courses. To take these courses you need: CS5343 Algorithm Analysis and Data Structures



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CS5343 Algorithm Analysis and Data Structures



Students with weak math backgrounds who want to take "Neural Net Math" should take both of the following MIT Course sequences (or equivalent) as prerequisites before taking "Neural Net Math":

https://ocw.mit.edu/courses/mathematics/18-06-linear-algebra-spring-2010/https://www.edx.org/course/probability-the-science-of-uncertainty-and-data-0

[lower-division linear algebra] [upper-division probability]

Data Science Coursework Offered in School of Economic Political and Policy Sciences

(for students who may have difficulty taking graduate coursework in Computer Science or Electrical Engineering)

Examples of Machine Learning Labs/Centers at UTD

(good resources to learn more about machine learning)



www.learningmachines101.com

(Dr. Golden's podcast)

Center for Applied AI and Machine Learning (UTD Computer Science)

Center for Machine Learning

Cognitive Informatics and Statistics Lab (Dr. Golden) (Golden Research Lab)

Computational Modeling/Machine Learning Career Paths

- Good Preparation if your goal is a PhD in areas such as:
 - Computational Neuroscience,
 - Mathematical Psychology
 - Computational Models of Cognition/Behavior

Computational Modeling/Machine Learning Career Paths

- Good Preparation if your goal is a PhD in areas such as:
 - Computational Neuroscience,
 - Mathematical Psychology
 - Computational Models of Cognition/Behavior
- Many career opportunities for:
 - Data Scientists
 - Machine Learning Engineers/Interns
 - Software Developers that Implement Machine Learning Algorithms
 - \$50K to \$150K (depending upon experience and expertise)

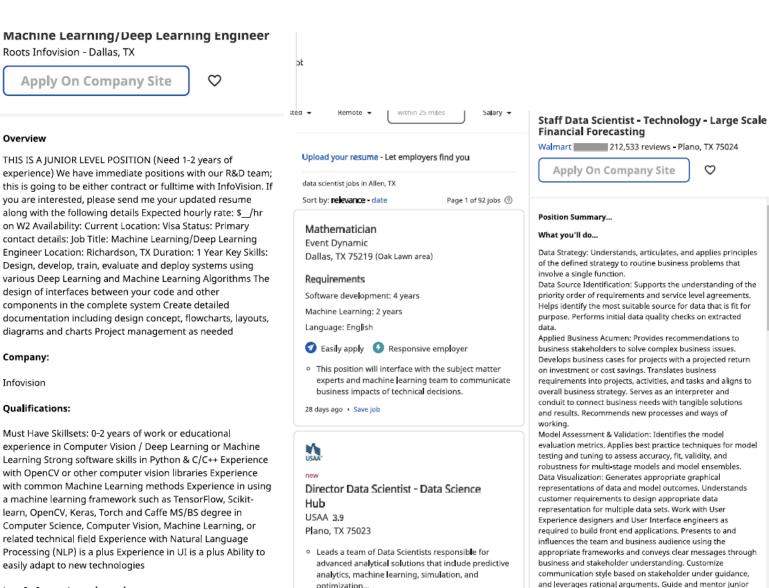
Searching for Jobs in Machine Learning Area on "INDEED.COM"

Level of experience (years):

Entry Level (Less than 2 years of Experience)

INDEED Search Keywords (www.indeed.com)

- Machine Learning Engineer
- Machine Learning Scientist
- Statistician
- Data Scientist
- Deep Learning Engineer



optimization...

Today - Save job

 \Diamond

associates on story types, structures, and techniques based

Problem Formulation: Translates business problems within

Research Methods Sequence

- BBS Research Methods Sequence: Research Methods 1, Research Methods 2
- The Research Methods sequence provides important marketable skills.
- However, if your goal is a PhD program in Cognition and/or Neuroscience, focus less on methodology and more on identifying your research interests.

Suggestions for Choosing Research Methods Section

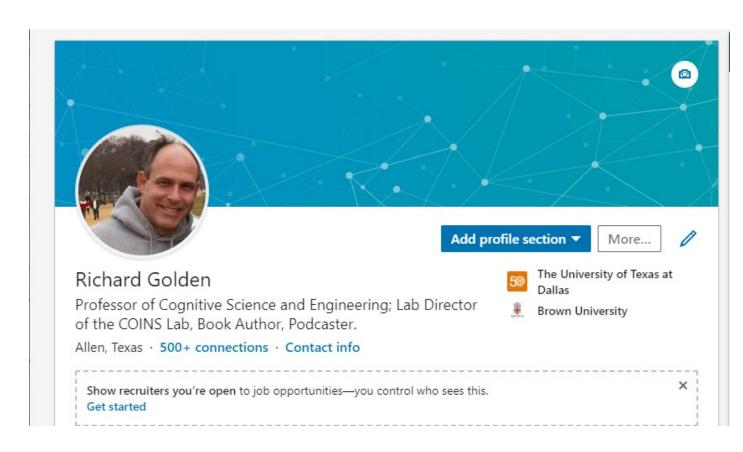
- Dr. Juhn → Best for students with standard undergrad stats background (e.g., psychology, neuroscience)
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- Students with undergrad degrees in Math, Physics, Computer Science, Engineering should skip RM1 and take RM2
- Both Instructors are Excellent Both Cover Similar Material!
 My goal here is to "match up" the right student with right instructor!!

NETWORK using LINKED-IN

- Connect with "Richard Golden" on LINKED-IN
- This is a good way to network with other alumni of the ACN program
- Aggressively explore career opportunities BEFORE you graduate!!!



Internship/Research Requirement

- The purpose of the internship/research requirement is to provide you with practical experience to improve post-graduation career opportunities.
- There is a 6 credit hour internship/research requirement.
- You may replace a portion or all of this requirement with 1 or 2 courses.
- General rule of thumb is 10 hours/week for 15 weeks is about 3 credit hours.
- Internship may be on-campus or off-campus.
- Melanie Davis has list of some potential off-campus opportunities.
- On-campus opportunities may be found by checking out
 - https://bbs.utdallas.edu/research/labs/
 - https://vitallongevity.utdallas.edu/research/
 - https://brainhealth.utdallas.edu/
 - https://centers.utdallas.edu/pain/
 - https://www.utdallas.edu/txbdc/research/

How NOT to Seek out an Internship or Research Opportunity.

"Hi. Do you have any internships available?"

How NOT to Seek out an Internship or Research Opportunity.

"Hi. Do you have any internships available?"

How to Seek Out an Internship/Research Opportunity

Hello. My name is ________. I am currently a graduate student in the Applied Cognition and Neuroscience program at the University of Texas at Dallas. I noticed that you were doing research in the area of ______. I am very interested in _____ and was wondering if I could set up a 20 minute meeting with you to learn more about what type of work you are doing in this area?

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learn more about what type of work you	are doing in this area?

During the meeting, try to figure out how you might assist in the work they are doing (If you think it is interesting).

At the end of the meeting say: "Thank you for meeting with me. I really enjoyed the meeting and was particularly interested in _____. Would it be possible for me to participate as a member of your lab or research group working in the area of _____?"

Phd Programs

• Don't apply to a PhD Program until you have clearly identified your research interests.

Phd Programs

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 Identify your research interests by reading journal articles published by faculty members.

Phd Programs

- Don't apply to a PhD Program until you have clearly identified your research interests.
- Identify your research interests by reading journal articles published by faculty members.
- Or identify your research interests by just finding journal articles on research that you would like to pursue and then talk to the Program Head about which faculty members are pursuing work in those areas.

Helpful Hint: Write your statement of purpose backwards!

6. Provide a brief statement at the end regarding your long-term interests (e.g., career in research and teaching, research in industry, research in academia, teaching, etc.). This might just be 1 sentence long.

- 5. Provide 2 or 3 examples of the types of research projects you would like to pursue as a PhD student. About 2-6 sentences per example.
- Provide a brief statement at the end regarding your long-term interests (e.g., career in research and teaching, research in industry, research in academia, teaching, etc.). This might just be 1 sentence long.

- 4. Provide an explicit statement about the general area of research which you intend to pursue as a PhD student.
- 5. Provide 2 or 3 examples of the types of research projects you would like to pursue as a PhD student. About 2-6 sentences per example.
- 6. Provide a brief statement at the end regarding your long-term interests (e.g., career in research and teaching, research in industry, research in academia, teaching, etc.). This might just be 1 sentence long.

- 3. Provide an overview of "relevant extra-curricular or research experiences"
- Provide an explicit statement about the general area of research which you intend to pursue as a PhD student.
- 5. Provide 2 or 3 examples of the types of research projects you would like to pursue as a PhD student. About 2-6 sentences per example.
- 6. Provide a brief statement at the end regarding your long-term interests (e.g., career in research and teaching, research in industry, research in academia, teaching, etc.). This might just be 1 sentence long.

- 2. Provide an overview of "relevant coursework"
- 3. Provide an overview of "relevant extra-curricular or research experiences"
- 4. Provide an explicit statement about the general area of research which you intend to pursue as a PhD student.
- 5. Provide 2 or 3 examples of the types of research projects you would like to pursue as a PhD student. About 2-6 sentences per example.
- Provide a brief statement at the end regarding your long-term interests (e.g., career in research and teaching, research in industry, research in academia, teaching, etc.). This might just be 1 sentence long.

- 1. Starts off with clear statement regarding the PhD program to which you are applying. Also make sure to explicitly list undergrad and grad degrees.
- 2. Provide an overview of "relevant coursework"
- 3. Provide an overview of "relevant extra-curricular or research experiences"
- 4. Provide an explicit statement about the general area of research which you intend to pursue as a PhD student.
- 5. Provide 2 or 3 examples of the types of research projects you would like to pursue as a PhD student. About 2-6 sentences per example.
- 6. Provide a brief statement at the end regarding your long-term interests (e.g., career in research and teaching, research in industry, research in academia, teaching, etc.). This might just be 1 sentence long.

Enrollment Details: Melanie Davis

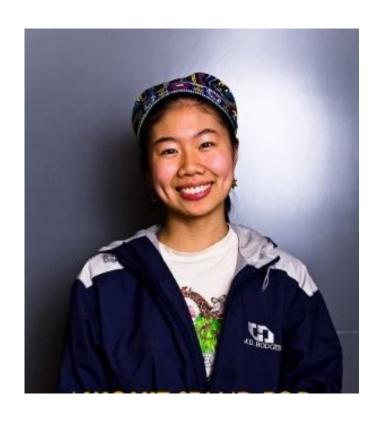
- Enrolling for classes. Use Qualtrix or UTD email. You can't enroll yourself.
- Academic Probation.
 Need to maintain B average or you will be asked to leave university.
- Graduation. Declaring that you are ready to Graduate.
- Personal Emergencies.
 Please send us a quick email indicating you need to drop out.

This is very important otherwise we may have difficulty re-enrolling you at some later time in the future.

Helpful Resources: Melanie Davis

- Catalog (https://catalog.utdallas.edu/2019/graduate/programs/bbs/applied-cognition-and-neuroscience)
- Academic Calendar (https://www.utdallas.edu/academiccalendar/)
- Comet Card (https://www.utdallas.edu/cometcard/)
- Parking and Transportation (https://www.utdallas.edu/services/transit/)
- UTD Maps (<u>www.utdallas.edu/maps</u>)
- Activity Center (https://www.utdallas.edu/directions/activity-center/)
- Software Discounts (https://www.utdallas.edu/oit/services/software/)

Graduate Student Life at UT Dallas



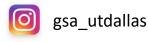
Jennifer Chi

BBS Representative UT Dallas Graduate Student Assembly

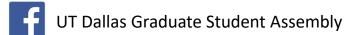


Graduate Student Life at UT Dallas

- What does Graduate Student Assembly (GSA) do?
- Our main focus is to provide academic, professional, and social opportunities for graduate students at UT Dallas
- Represent graduate students for the different school across campus
 - Each school has a GSA School Representative
- Work with Office of Graduate Education and other administrators to communicate about key issues
 - · PhD stipend and health insurance
- Help promote and provide Health and Wellness events
- Organize social events for graduate students every semester
 - Happy hours, game nights, mixers









School Rep: jxc126831@utdallas.edu

Group: gradstudentassembly@utdallas.edu



Thank you for your Attention! We are here to help you succeed!!



ACN Program Head: Professor Richard Golden



ACN Academic Support Officer: Melanie Davis



Dean of the School of Behavioral and Brain Sciences: Dean Small



Associate Dean of
Graduate Studies in the
School of Behavioral
and Brain Sciences:
Professor Stillman