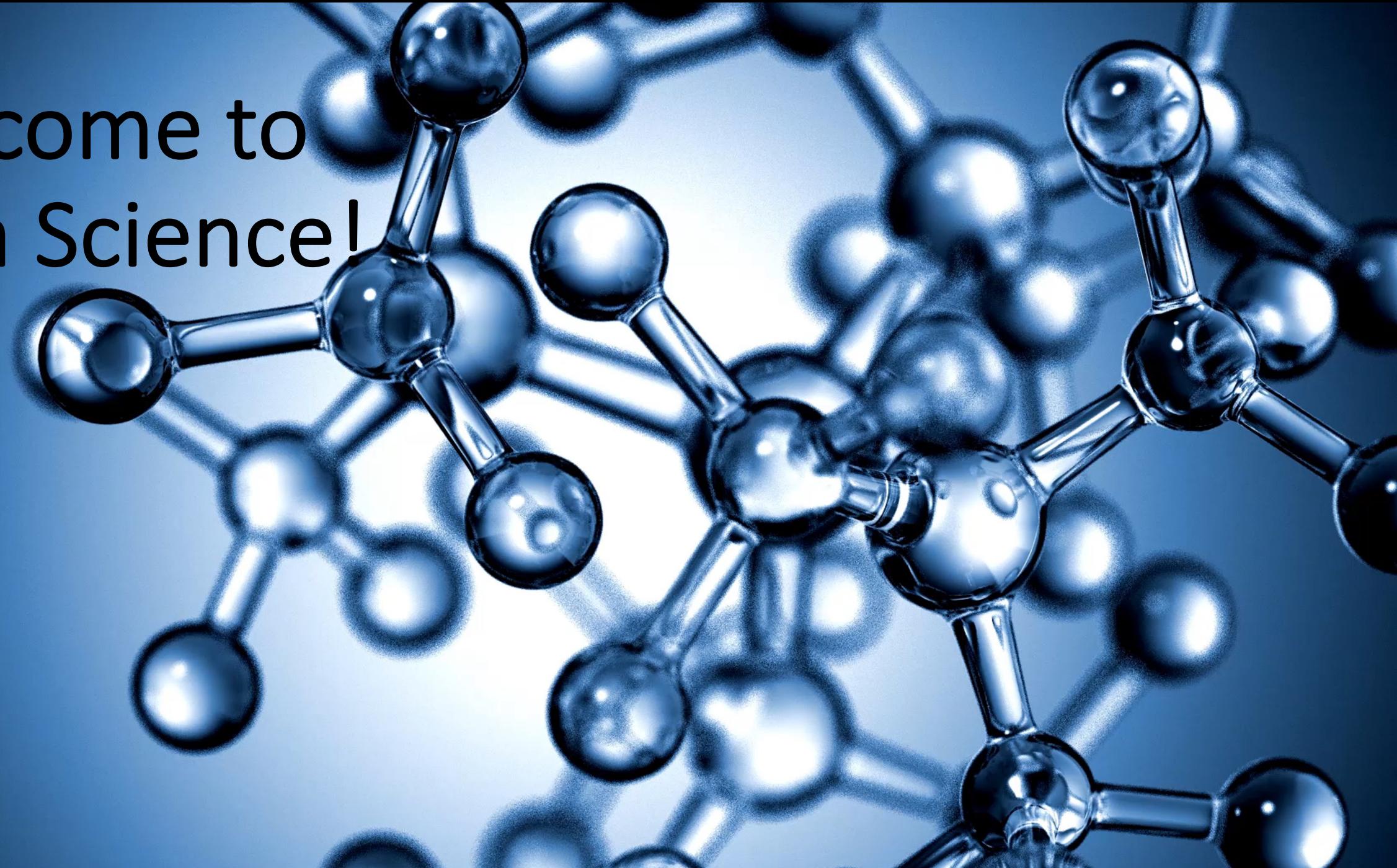


Welcome to
Data Science!





iSpot.tv

Data Science Program Introduction

- Fastest Growing Occupations
- What and Why Data Science
- Data Science In and For Every Industry
- AWS Clip
- DS Expectations
- LMS Dashboard
- GitHub Repository
- Slack Tips
- Student Journey
- Final Project

Fastest Growing Occupations

OCCUPATIONAL OUTLOOK HANDBOOK

Search Handbook

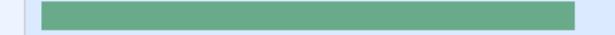
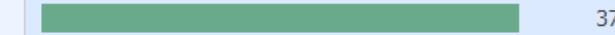
Go

Fastest Growing Occupations

PRINTER-FRIENDLY

Fastest growing occupations: 20 occupations with the highest projected percent change of employment between 2021-31.

Click on an occupation name to see the full occupational profile.

OCCUPATION	GROWTH RATE, 2021-31	2021 MEDIAN PAY
Nurse practitioners	 46%	\$120,680 per year
Wind turbine service technicians	 44%	\$56,260 per year
Ushers, lobby attendants, and ticket takers	 41%	\$24,440 per year
Motion picture projectionists	 40%	\$29,350 per year
Cooks, restaurant	 37%	\$30,010 per year
Data scientists	 36%	\$100,910 per year
Athletes and sports competitors	 36%	\$77,300 per year
Information security analysts	 35%	\$102,600 per year
Statisticians	 33%	\$95,570 per year
Umpires, referees, and other sports officials	 32%	\$35,860 per year
Web developers	 30%	\$77,030 per year
Animal caretakers	 30%	\$28,600 per year
Choreographers	 30%	\$42,700 per year

What is Data Science

The Field of Solving the World's Problems

- Exponential amounts of data
- Data Scientists provide meaningful insights and predictions!
- Not enough people to analyze or make sense of the data.

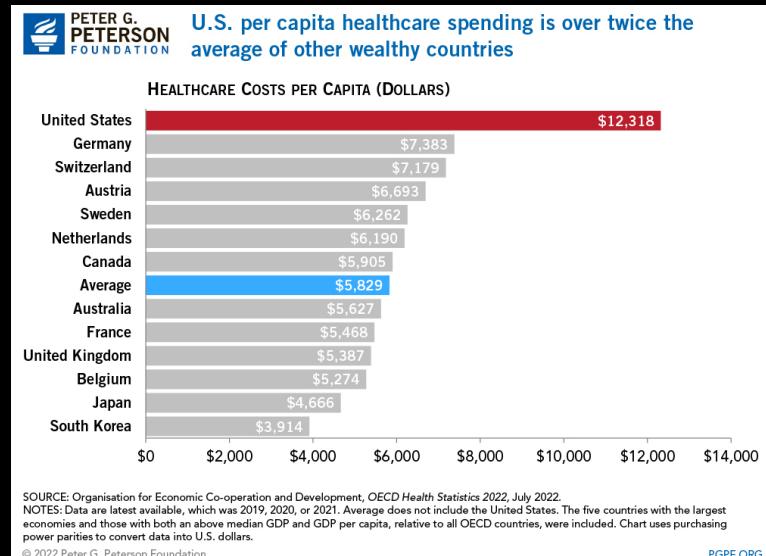


DS In & For Every Industry

- Sports
- Entertainment
- Government
- Healthcare
- Telecommunication



- Insurance
- Retail
- Finance
- Pharma





Your Success Starts Here!

Approximately
20 hours per
week in your
course

Login at least 4
days per week
(every other
day)

Deadlines:
• Wednesday &
Sunday Deadlines

COMMUNICATE!
• 1x1s
• Slack Channel

Your Dashboard

- 3 sections
 - Graded Assignments
 - Course Lessons
 - Announcements

The screenshot shows the 'My Dashboard' page from the wozU platform. At the top right, there are navigation links for 'Admin', 'Instructor', a notification bell with '99+' notifications, and a user profile for 'Margaret Martinez'. The main content area is divided into three main sections:

- Graded Assignments:** Displays a list of quizzes for the course 'DSO101C - Basic Statistics'.

Assignment	Grade
Data Science Quiz	NA
Data Science Pipeline Quiz	NA
Data Science Software Quiz	NA
Data Science Path Quiz	NA
About You Hands-On	100.0% (A)
Single Event Probability Quiz	Due: Sep 18 (MST)
Probability Rules 1 & 2 Quiz	Due: Sep 18 (MST)

1 (of 13) >
- Courses:** Shows the course 'DSO101C (Sep 12 - Oct 2)' with a progress bar at 8%. It lists various lessons:
 - Basic Statistics for Data Science (1 / 11)
 - Lesson 1. Introduction to Data Science (Done)
 - Lesson 2. Probability (Resume)
 - Lesson 3. Variable Types
 - Lesson 4. Common Descriptive Statistics
 - Lesson 5. The Normal Distribution
 - Lesson 6. Statistical Inference
 - Lesson 7. Uniform, Binomial, Student's T, and F-Distribut...
 - Lesson 8. Other Common Distributions
 - Lesson 9. High Level Data Exploration
 - Lesson 10. Concept Mastery Exam
 - Lesson 11. Feedback
- Announcements:** States 'There are no announcements'.

GitHub Repository

woz-u / DS-Student-Resources Public

Edit Pins Watch 15 Fork

<> Code Issues 2 Pull requests Discussions Actions Projects 1 Wiki Security Insights

main ▾ 13 branches 0 tags Go to file Add file ▾ Code ▾

Wildertrek	Created Data Analytics Lab 2 - Query Data in Amazon Athena https://vi...	5a8e0c7 2 hours ago	1,947 commits
DS101-Basic-Statistics	added DS109- L6 video to workshop helpers	3 days ago	
DS102-Statistical-Programming-in-R	Created Lab 3	7 days ago	
DS103-Metrics-and-Data-Processing	adding diam formula picture	last month	
DS104-Data-Wrangling-and-Visualiz...	added DS109- L6 video to workshop helpers	3 days ago	
DS105-Intermediate-Statistics	DS105-L6 solution in the examples folder	3 days ago	
DS106-Machine-Learning	Revert "Merge branch 'main' of https://github.com/woz-u/DS-Student-R... "	2 months ago	
DS107-Big-Data	Created Data Analytics Lab 2 - Query Data in Amazon Athena https://vi...	2 hours ago	
DS108-Databases	Update DS108-L1-Getting-Started-With-SQL.ipynb	12 days ago	
DS109-Python	adding diam formula picture	last month	
DS110-Final-Project	Created Lab 3	7 days ago	
Data Science Interview Questions	Create 164 Data Science Interview Questions.pdf	last month	
.gitignore	removed .DS_Store	12 months ago	
MentorSchedule.png	Create MentorSchedule.png	14 days ago	
README.md	Update README.md	8 months ago	
Syllabus.md	Update Syllabus.md	9 months ago	

About

Data Science Student Companion
Notebooks and Data Lake

python data-science machine-learning
r statistics sql nosql
data-visualization data-analysis

Readme 60 stars 15 watching 87 forks

Releases

No releases published Create a new release

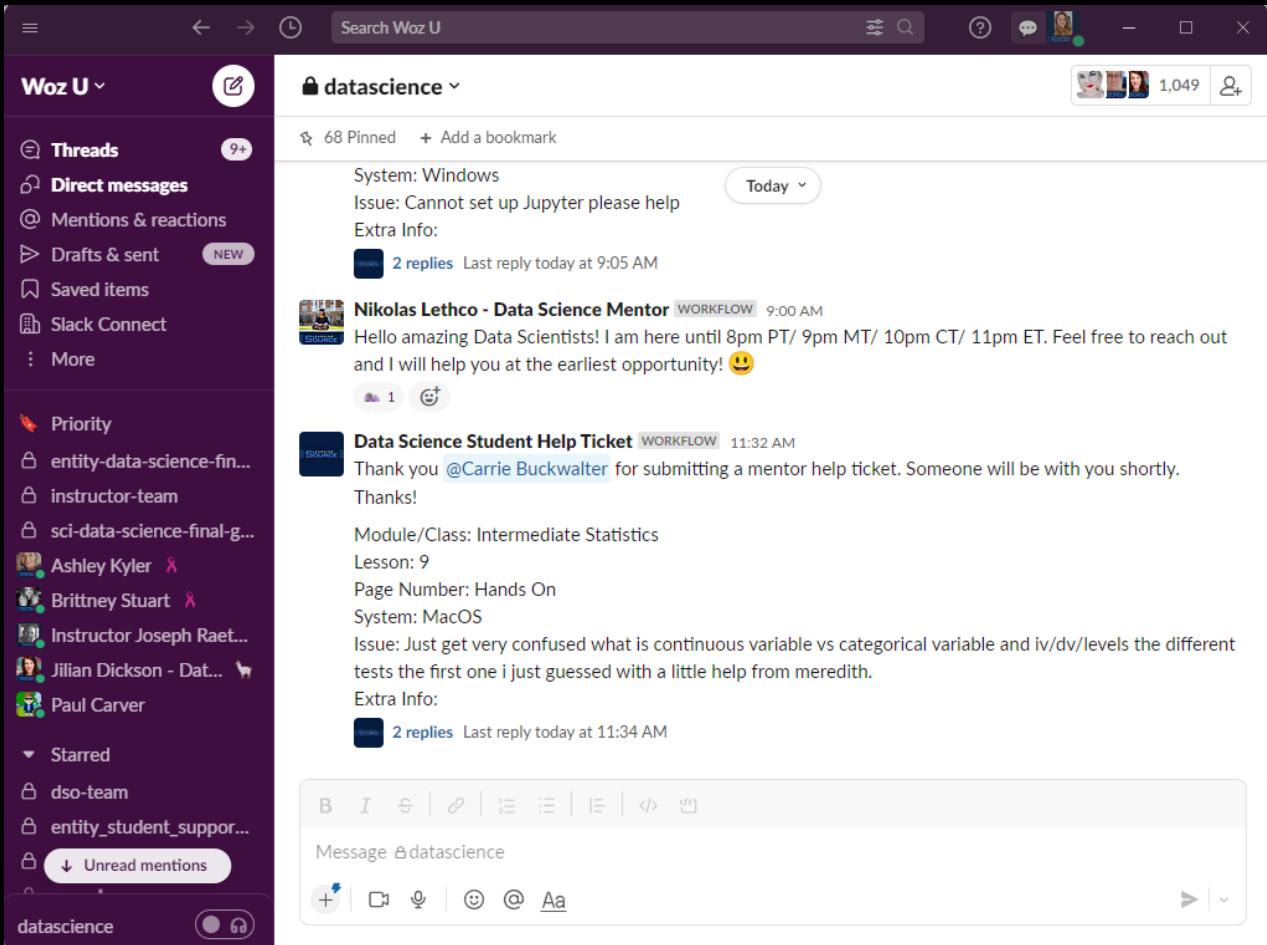
Packages

No packages published Publish your first package

Contributors 21

Slack Tips

- **#datascience**
- Ask Questions – Use ticketing system
- Share resources
- Right Click
 - Pin items
 - Reminders
 - Saved items



Student Journey

Order	Course
First 5 courses in order	Basic Statistics
	Statistical Programming in R
	Databases
	Programming Foundations in Python
	Data Wrangling and Visualization
Any Order	Intermediate Statistics
	Machine Learning and Modeling
	Metrics and Data Processing
	Big Data

Final Project

6 week Project:

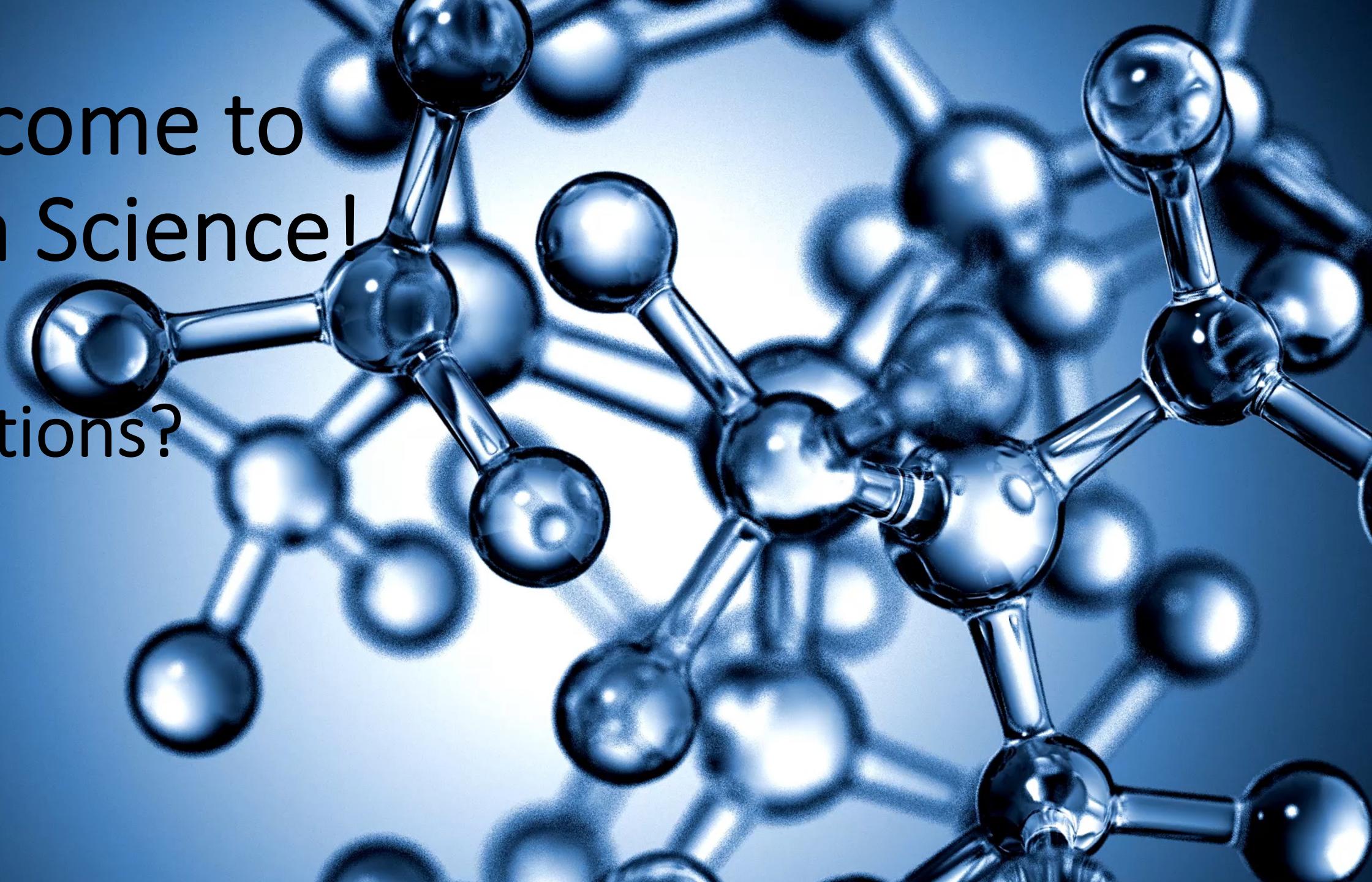
- Lesson 1: Choosing Data, Analysis Choice
- Lesson 2: Data Wrangling
- Lesson 3: Exploratory Data Analysis
- Lesson 4. Analyze Data
- Lesson 5. Data Visualization and Reporting
- Lesson 6. Presentation Preparation Checklist
- Lesson 7. Presentation

Graduates can Expect

Experience Level	Entry	Mid	High
Job titles	Data Specialist	<ul style="list-style-type: none">Junior Data ScientistData AnalystMarket AnalystBusiness AnalystProgram EvaluatorAssociate ResearcherScientistStatisticianIntelligence Analyst	<ul style="list-style-type: none">Project ManagerData ScientistSenior Data ScientistData EngineerModelerResearcherSenior ScientistBiostatistician
Skills needed	<ul style="list-style-type: none">MS ExcelMS Access	<ul style="list-style-type: none">Statistical Programming in R and Python, SAS, SPSS, <u>MiniTab</u>, or MLABDatabase manipulation through SQLData visualization in Tableau and other stats programs	<ul style="list-style-type: none">Programming in PythonMachine learning, deep learningAWS, Spark, Hadoop, JiraProject management in Agile, WaterfallPublication of findings
Applications	<ul style="list-style-type: none">Data entryBasic analysisDescriptive statistics	<ul style="list-style-type: none">Analysis for businessesScientific, and research applications	<ul style="list-style-type: none">Analysis for large and/or complex businessesScientific, and research applications

Welcome to
Data Science!

Questions?



References

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- <https://www.engati.com/blog/predictive-analytics#:~:text=%E2%80%8D-,How%20Netflix%20uses%20data%20analytics%3F,be%20interested%20in%20seeing%20next.>
- <https://www.ispot.tv/ad/tsBf/amazon-web-services-next-gen-stats-final-whistle-song-by-the-chambers-brothers>