

UIUC STAT 430 - Fall 20

Announcements

- Exam 1 (exams.html) details are now posted in the Exams tab.
 - Exam 1 will be at 7:00 PM - 8:30 PM Champaign Time on Thursday, 10/01/2020.
- **Click here for the week 6 material!**
 - No lab or homework assignment this week.
- You can find the homework solution here (https://github-dev.cs.illinois.edu/stat430-fa20/_hw-soln).
- **Deadlines for Week 6:**
 - HW 4 - 105%: 11:59 PM Tue, 09/29/2020.
 - Lab 05: 11:59 PM Wed 09/30/2020.
 - HW 4 - 100%: 11:59 PM Fri 10/02/2020.
 - HW 4 - 80%: 11:59 PM Sun 10/04/2020.

*You can find reminders on homework deadlines, upcoming exams, changes to the office hours schedule (if needed), etc. here! Make sure you check this section **at least once a week!***

Office Hours

- Join the office hours on Zoom (<https://illinois.zoom.us/j/94059356161?pwd=TUEvNWJlbklvVEZKSzV3LzBqc3IxQT09>)!
- Ha's Office Hours:
 - Tuesday: 7:00 PM - 8:00 PM
 - Wednesday: 9:00 AM - 10:00 AM and 7:00 PM - 8:00 PM
- Abhishek's Office Hours: 3:00 PM - 5:00 PM Monday.

Week 1 | 08/24/2020 - 08/30/2020

Lectures

Topic	Video	Mirror	Notes
1.1 Welcome to STAT 430!	[YouTube] (https://youtu.be/bCbRlBMm33M)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_3o1mi0el)	[Syllabus] (syllabus.html)
1.2 Installing Python & git	[YouTube] (https://youtu.be/xQh71Z5qkIg)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_06s504jg)	[Windows] (windows-setup.html), [Mac] (osx-setup.html), [git] (git-setup.html)
1.3 Intro to Jupyter Notebook			[lab01] (lab01.html)
1.4 Basics of Programming	[YouTube] (https://youtu.be/Yf9Tbn8dbtc)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_utn28ukj)	[1.4] (files/lectures/lec1-4.html)

Week 2 | 08/31/2020 - 09/06/2020

Lectures

Topic	Video	Mirror	Notes
2.1 Data Types	[YouTube] (https://youtu.be/Rq6iYqApEI0)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_vt3vejec)	[2.1] (files/lectures/lec2-1.html)
2.2 Control Flow	[YouTube] (https://youtu.be/ylyP3-fK7o0)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_h5gkzq88)	[2.2] (files/lectures/lec2-2.html)
2.3 Lab 02			[lab02] (lab02.html)
2.4 Tuple	[YouTube] (https://youtu.be/TeolHyDlh4E)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_zm45y3uj)	[2.4] (files/lectures/lec2-4.html)

Deadlines

Assignment	Deadline	Credit
Lab 1	11:59 PM Wed, 09/02/2020	100%
HW 1	11:59 PM Sun, 09/06/2020	105%

Week 3 | 09/07/2020 - 09/13/2020

Lectures

Topics	Video	Mirror	Notes
3.1 List	[YouTube] (https://youtu.be/QFIX3ZyFTrA)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_bgijizya)	[3.1] (files/lectures/lec3-1.html)
3.2 Dictionary	[YouTube] (https://youtu.be/TAve5Tr3aKE)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_tgb00owk)	[3.2] (files/lectures/lec3-2.html)
3.3 Lab 03			[lab03] (lab03.html)
3.4 Function	[YouTube] (https://youtu.be/bi_VnLXyhWQ)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_vbndfvhl)	[3.4] (files/lectures/lec3-4.html)

Deadlines

Assignment	Deadline	Credit
Lab 2	11:59 PM Wed, 09/09/2020	100%
HW 1	11:59 PM Fri, 09/11/2020	100%
	11:59 PM Sun, 09/13/2020	80%

Week 4 | 09/14/2020 - 09/20/2020

Lectures

Topics	Video	Mirror	Notes
4.1 Errors & Exception Handling	[YouTube] (https://youtu.be/mAQPPRhNQfQ)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_g1k52q7c)	[4.1] (files/lectures/lec4-1.html)
4.2 NumPy Basics: Part 1	[YouTube] (https://youtu.be/JsXR2ELwSpQ)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_lubx0uyy)	[4.2] (files/lectures/lec4-2.html)
4.3 NumPy Basics: Part 2	[YouTube] (https://youtu.be/o0kAFCEe-J0)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_wirqwznz)	[4.3] (files/lectures/lec4-3.html)
4.4 Lab 04			[lab04] (lab04.html)

Deadlines

Assignment	Deadline	Credit
Lab 3	11:59 PM Wed, 09/16/2020	100%
HW 2	11:59 PM Tue, 09/15/2020	105%
	11:59 PM Fri, 09/18/2020	100%
	11:59 PM Sun, 09/20/2020	80%
HW 3	11:59 PM Sun, 09/20/2020	105%

Week 5 | 09/21/2020 - 09/27/2020

Lectures

Topic	Video	Mirror	Notes
5.1 NumPy: Linear Algebra	[YouTube] (https://youtu.be/H_E3jBpOAIQ)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_7n80js47)	[5.1] (files/lectures/lec5-1.html)
5.2 NumPy: Mathematical & Statistical Methods	[YouTube] (https://youtu.be/AZDZOinnOBQ)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_nv1w84tc)	[5.2] (files/lectures/lec5-2.html)
5.3 NumPy Application: Random Walks	[YouTube] (https://youtu.be/eE9gSVQQ5FY)	[Media Space] (https://mediaspace.illinois.edu/media/t/1_kxgicplv)	[5.3] (files/lectures/lec5-3.html)
5.4 Lab 05			[lab05] (lab05.html)

Deadlines

Assignment	Deadline	Credit
Lab 4	11:59 PM Wed, 09/23/2020	100%
HW 3	11:59 PM Fri, 09/25/2020	100%
	11:59 PM Sun, 09/27/2020	80%

Week 6 | Current Week

- Dates: 09/28/2020 - 10/04/2020

Lectures

Topic	Video	Mirror	Notes
6.1 Intro to Git & GitHub	[YouTube]	[Media Space]	[6.1]
6.2 Git Branches	[YouTube]	[Media Space]	[6.2]
6.3 pandas Series	[YouTube]	[Media Space]	[6.3]

Deadlines

Assignment	Deadline	Credit
<u>Exam 1</u> (exam.html).	Thur, 10/01/2020	100%
Lab 05	11:59 PM Wed, 09/30/2020	100%
HW 4	11:59 PM Tue, 09/29/2020	105%
	11:59 PM Fri, 10/02/2020	100%
	11:59 PM Sun, 10/04/2020	80%

Week 7 | 10/05/2020 - 10/11/2020

- Lectures:**
 - DataFrame
 - Modifying DataFrame
 - Summarizing & Computing Descriptive Statistics
- Lab:** [lab06] ()
- Deadlines:**
 - HW 5 105%: by 11:59 PM on Sunday, 10/11/2020.

Week 8 | 10/12/2020 - 10/18/2020

- Lectures:**
 - Writing Data
 - Handling Missing Data
 - Data Transformation
- Lab:** [lab07] ()

- **Deadlines:**
 - Lab 6: by 11:59 PM on Wednesday, 10/14/2020.
 - HW 5 100%: by 11:59 PM on Friday, 10/16/2020.
 - HW 5 80%: by 11:59 PM on Sunday, 10/18/2020.
 - HW 6 105%: by 11:59 PM on Sunday, 10/18/2020.
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Week 9 | 10/19/2020 - 10/25/2020

- **Lectures:**
 - String Manipulation
 - Regular Expressions
 - Vectorized String Functions in pandas
 - **Lab:** [lab08] ()
 - **Deadlines:**
 - Lab 7: by 11:59 PM on Wednesday, 10/21/2020.
 - HW 6 100%: by 11:59 PM on Friday, 10/23/2020.
 - HW 6 80%: by 11:59 PM on Sunday, 10/25/2020.
 - HW 7 105%: by 11:59 PM on Sunday, 10/25/2020.
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Week 10 | 10/26/2020 - 11/01/2020

- **Lectures:**
 - GroupBy Mechanics
 - Data Aggregation
 - Apply: General split-apply-combine
 - **Lab:** [lab09] ()
 - **Deadlines:**
 - Lab 8: by 11:59 PM on Wednesday, 10/28/2020.
 - HW 7 100%: by 11:59 PM on Friday, 10/30/2020.
 - HW 7 80%: by 11:59 PM on Sunday, 11/01/2020.
 - HW 8 105%: by 11:59 PM on Sunday, 11/01/2020.
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Week 11 | 11/02/2020 - 11/08/2020

- **Lectures:**
 - Basics of Plotting
 - **Lab:** [lab10] ()
 - **Deadlines:**
 - Lab 9: by 11:59 PM on Wednesday, 11/04/2020.
 - HW 8 100%: by 11:59 PM on Friday, 11/06/2020.
 - HW 8 80%: by 11:59 PM on Sunday, 11/08/2020.
 - HW 9 105%: by 11:59 PM on Sunday, 11/08/2020.
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Week 12 | 11/09/2020 - 11/15/2020

- **Lectures:**
 - Plotting with pandas & seaborn
 - Intro to Plotly
 - Plotting for Network Data
- **No lab due to Exam 2**
- **Deadlines:**
 - **Exam 2 at TBD on Thursday, 11/12/2020.**

- Lab 10: by 11:59 PM on Wednesday, 11/11/2020.
 - HW 9 100%: by 11:59 PM on Friday, 11/13/2020.
 - HW 9 80%: by 11:59 PM on Sunday, 11/15/2020.
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Week 13 | 11/16/2020 - 11/22/2020

- **Lectures:**
 - Data Analysis Examples in Python
 - **Lab:** [lab11] ()
 - **Deadlines:**
 - HW 10 105%: by 11:59 PM on Sunday, 11/22/2020.
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Week 14 | 11/23/2020 - 11/29/2020

- *No class - Thanksgiving Week*
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Week 15 | 11/30/2020 - 12/06/2020

- **Lectures:**
 - Data Analysis Examples in Python
 - **Lab:** [lab12] ()
 - **Deadlines:**
 - Lab 11: by 11:59 PM on Wednesday, 12/02/2020.
 - HW 10 100%: by 11:59 PM on Friday, 12/04/2020.
 - HW 10 80%: by 11:59 PM on Sunday, 12/06/2020.
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Week 16 | 12/07/2020 - 12/13/2020

- **Lectures:**
 - Data Analysis Examples in Python
 - **Deadlines:**
 - Lab 12: by 11:59 PM on Wednesday, 12/09/2020.
 - **Final Project due at TBD on TBD.**
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REMEMBER!

When in doubt, post your question on Piazza (piazza.com/illinois/fall2020/stat430hn) or email me at hknguyen@illinois.edu (<mailto:hknguyen@illinois.edu>)! Don't wait!