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Statistical mechanics lecture notes

Yes – class sessions are recorded. Links to the recordings are on the class web page. Class: Bioinformatics for Beginners using the Biostar Handbook Date Speaker(s) Presentation Title June 2021 Lisa Carter-Harris, Ph.D. Memorial Sloan Kettering Cancer Center Beyond a Closed-Ended Question: Understanding the Decision to Screen or Not for Lung Cancer May 2021 Jessica Scott, Ph.D. Assistant Member, Exercise Oncology Service, Memorial Sloan Kettering Cancer Center From Spaceflight to Cancer Therapy: The Next Frontier of Multisystem Toxicity Countermeasures May 2021 Ashwani Rajput, M.D. Director, Johns Hopkins Kimmel Cancer Center, National Capital Region Professor of Surgery and Oncology, John Hopkins University Building Bridges to Enhance Cancer Prevention and Care April 2021 Nilanjan Chatterjee, Ph.D. Bloomberg Distinguished Professor, Department of Biostatistics, Bloomberg School of Public Health, Department of Oncology, School of Medicine, Johns Hopkins University Polygenic Risk Scores in Cancer Prevention April 2021 Ellen M. Daley, Ph.D., M.P.H. University of South Florida College of Public Health HPV Vaccine Strategies in the US: Why Haven't We Been More Successful? March 2021 Christopher Friese, Ph.D., R.N., A.O.C.N., F.A.A.N. University of Michigan School of Nursing, Ann Arbor, MI Improving Cancer Care: Listening to Patients and Clinicians February 2021 David B. Allison, Ph.D. School of Public Health, University of Indiana, Bloomington, IN Rescuing Nutrition Science's Reputation from the Bin of Condemnation to that Worthy of Constructive Criticism: Toward Greater Rigor and Warrant in Nutrition and Obesity January 2021 Lauren McCullough, Ph.D., M.S.P.H. Emory University, Winship Cancer Institute, Atlanta, GA Understanding Breast Cancer Disparities: Cells to Society December 2020 Cosette M. Wheeler, Ph.D. Department of Pathology, University of New Mexico (UNM) Regents Professor, Department of Obstetrics and Gynecology, UNM Health Sciences Center, Albuquerque, NM New Mexico HPV Pap Registry: Integration of Real World Data to Improve Cervical Cancer Screening and Inform Policy November 2020 Laundette Jones, Ph.D., M.P.H. University of Maryland School of Medicine, Program in Health Equity and Population Health From Cells to Communities: Building a Scientist-Survivor Program October 2020 Lisa S. Shock, Ph.D. VCU Massey Cancer Center, Virginia Commonwealth University School of Medicine Mitochondrial Epigenetics: Surprising Roles in mtDNA Structure, Mitochondrial Function and Metastasis October 2020 Ilona Jaspers, Ph.D., M.S. UNC Gillings School of Global Public Health E-cigarettes and Vaping: Toxicities, Misconceptions, and Health Effects September 2020 Edward L. Giovannucci, M.D., Sc.D. Harvard T.H. Chan School of Public Health The Primary Prevention of Colorectal Cancer June 2020 Siobhan M Phillips, Ph.D., M.P.H. Northwestern University Fit2Thrive: Optimization of a Nationwide Physical Activity Promotion Intervention for Breast Cancer Survivors May 2020 Linda Ko, Ph.D., M.P.H., M.S. Fred Hutchinson Cancer Research Center, Seattle, WA Multi-level Communication Intervention to Promote HPV Vaccination among East African Adolescents May 2020 Paul C. Boutros, Ph.D., M.B.A. University of California, Los Angeles The Evolutionary Origins of Aggressive Cancer March 2020 Patricia Ganz, M.D. UCLA Fielding School of Public Health Cancer and Aging: Implications for Cancer Survivors February 2020 Carol J. Boushey, Ph.D., M.P.H., R.D. University of Hawaii'i Cancer Center Using Food Images and Dietary Patterns to Facilitate Perceptions Through Multiple Lenses February 2020 Hazel B. Nichols, Ph.D. UNC Gillings School of Global Public Health Cancer and Parenthood January 2020 Jessica Chubak, Ph.D. Kaiser Permanente Washington Health Research Institute Using Electronic Health Care Data to Study Cancer Screening: Challenges and Opportunities September 2019 Daniel A. Rodriguez, Ph.D., M.S.T. UC Berkeley Commute Patterns and Depression: Evidence from Eleven Latin American Cities April 2019 Raymond DuBois, M.D., Ph.D. Medical University of South Carolina, Charleston, SC Inflammation and Inflammatory Mediators as Potential Targets for Cancer Prevention or Interception April 2019 Noelle J. LoConte, M.D. University of Wisconsin (UW) Carbone Cancer Center Alcohol and Cancer: A Call to Action for the Oncology Community March 2019 Bradley J. Zebreck, Ph.D., M.S.W., M.P.H. University of Michigan Comprehensive Cancer Center, Division of Cancer Prevention and Control Life, Interrupted – The Adolescent/Young Adult Cancer Experience March 2019 Karen Glanz, Ph.D., M.P.H. University of Pennsylvania School of Nursing, Philadelphia, PA Local Policies and Environments: How well do they work to improve Health Behavior? March 2019 Jeff Niederdeppe, Ph.D. Cornell University, College of Agriculture and Life Sciences, Ithaca, NY Effects of Tobacco Product Warning Labels on Youth and Adults: Broader Implications for Cancer Communication February 2019 Joel Palefsky, M.D. University of California, San Francisco, San Francisco, CA Anal HPV Infection and Disease: A Model for Understanding All Things HPV January 2019 Bruce Alexander, Ph.D. University of Minnesota School of Public Health, Minneapolis, MN Mesothelioma and Taconite Mining Exposures January 2019 Andrew Chan, M.D., M.P.H. Harvard Medical School, Massachusetts General Hospital, Boston, MA Aspirin for the Precision Prevention of Colorectal Cancer January 2019 Louise M. Henderson, Ph.D. UNC-Chapel Hill School of Medicine, Chapel Hill, NC Advancing a Risk-based Approach for Cancer Screening Statistics Approximately 34 million children and adults have diabetes in the United States. The numbers associated with diabetes make a strong case for devoting more resources to finding a cure. Read more The national cost of diabetes in the U.S. in 2017 was more than \$327 billion, up from \$245 billion in 2012. Diabetes is growing at an epidemic rate in the United States. And what's true nationwide is also true in each state. by Gina TrapaniCopying method.We've mentioned the Cornell method in passing here and there, but today we'll dive deep into how to transcribe a lecture in a way that makes studying and cross-references a breeze throughout the semester - no copying involved.I wish I'd had a system in place for my own notetaking when I was a student. The Cornell Notetaking Read moreLay out your page for the Cornell MethodUsing the Cornell method, you split your notes page into three sections, as shown below.Notes column (right) Record the lecture here during class using short sentences and fragments that transcribe the facts you'll need. Eliminate all unnecessary words. Use bulleted lists for easy skimming, and as much shorthand as possible (without sacrificing readability.) Develop a vocabulary of abbreviations you always use, like "ex" for "for example," "v." for "very," "tho" for "though," "1st" and "2nd" for "first and second." Finally, leave lots of whitespace between points and paragraphs so you can go back and fill in sections later.Cues column (left) After class, review your notes and jot questions and memory joggers in this narrow column that help connect ideas listed in the notes section. When you're studying, you will look at these cues to help you recall the salient facts in your notes, so keep that in mind when you create your cues.Summary area (bottom) After class while you create your cues, sum up the notes on each page in one or two sentences that encapsulate the main ideas in the bottom area. You'll use the summary section to skim through your notes and find information later.An example of a page of notes taken with the Cornell method, shamelessly ripped off from a Temple University page, is shown below. (Click to enlarge.)Study and review your Cornell-formatted notesThe Cornell Note-taking method's creator, Walter Pauk, outlined a six-step study system to use along with this note format. The BYU web site breaks down the 6 R's: Record, Reduce, Recite, Reflect, Review and Recapitulate. While those steps are worth a read, personally I think this system boils down even further.In short, once you've attended class and filled in the notes area, that evening, review them and fill in the cues and summary area. When the time comes to study for an exam, read through your notes. To quiz yourself, cover up the right side and use the cues on the left to jog your memory and help you rebuild the factual narrative in your mind. When you've got a paper to write, use the summary section of each notes page to flip through and find relevant facts to cite in your paper.In essence, with the Cornell method, instead of straight transcription, you're creating your study guide as you go instead of waiting till it's time to cram for the test.Pre-formatted Cornell NotepaperUnless you like messing around with a ruler and pen or pencil, there are a few templates and notepaper generators that will print out pre-formatted Cornell notes-style pages. Two mentionables include:The Cornell Method PDF Generator creates printable PDF's split into the Cornell notepaper style with unlined, ruled, or graphed sections. Optionally include your name, the date, and the name of your class, and up to 4 punch holes for use in a binder. Also, choose the line darkness on a scale from gray to black.Cornell Word Templates are perfect for students who take their notes with Microsoft Word. This page includes instructions for creating your own Word Cornell template, and a sample you can tweak to your own needs.How are you taking notes this semester? Had any good or bad experiences with the Cornell method? Let us know in the comments.Gina Trapani, the editor of Lifehacker, is sharpening her Ticonderoga Number 2's for class. Her semi-weekly feature, Geek to Live, appears every Wednesday and Friday on Lifehacker. Subscribe to the Geek to Live feed to get new installments in your newsreader. Last Updated on February 11, 2021 Coca-Cola is an adored product the world over. While keeping yourself in good health means moderating how often you enjoy this drink, Coca-Cola lovers will be happy to hear that there are plenty of uses for the soda pop that don't involve ingesting it. Impressively, Coca-Cola can be used to help you clean, get rid of rust, and even help maintain your garden. Whether you are looking for a way to finally get rid of those pesky stains, or just want to find new ways to love this drink, these 20 jaw-dropping and unusual uses for Coca-Cola will blow you away.Kill pests in your gardenCoca-Cola is also an effective pest control method for your garden. To rid yourself of plant munching slugs and snails, pour a small bowl of Coca-Cola and place it near your garden or flowerbeds. The smell will attract these crawling bugs and the drink's acidity will kill them.Defrost your windshieldIncredibly, Coca-Cola can also defrost your windshield in the wintertime. Simply pour Coke liberally across your windshield and wait about a minute. The ice should turn to slush for easy removal.Clean your pansCoca-Cola is also useful in the kitchen, especially on burnt pans. For any pan with burnt on messes, pour a can of Coke into the pan and simmer. The mess should easily wipe away. You can also soak kettles and other kitchen items in Coca-Cola to remove scale and build up. Clean bugs from your windshieldAnother way Coca-Cola can aid in your car care is by removing bugs and gunk from your windshield. Soak a cloth in coke, then rub across your windshield. Just be careful not to get any on your paint job.Remove rust from your carCoca-Cola is also useful when removing rust. The simplest method is to dip crumpled tinfoil in Coca-Cola, then give the item a scrub and you should be rust free.Loosen rusty boltsSimilarly, use Coca-Cola to loosen up a rusty bolt. Simply unscrew the bolt half a turn and pour on Coca-Cola. Let it sit, then give the metal a wipe. The bolt and screws will be one hundred percent in no time.Remove stains from your fabricSurprisingly, Coca-Cola is incredibly helpful when removing stains from clothing and fabric. Coke will easily remove grease stains, as well as blood spots. Remember that Coca-Cola itself is brown, so stains on light fabrics might be better removed another way. Remove oil spotsAnother way to use Coca-Cola is to remove oil stains from cement. Whether it's your garage or your driveway, soak the stain in Coca-Cola for a few hours then hose off.Relieve jellyfish stingsShould you be unwilling to neutralize a jellyfish sting the traditional way (with urine) pouring Coca-Cola on the sting will also do the job.Clean your car engineCoca-Cola is also an effective way to clean your car engine. Believe it or not, Coke distributors have reportedly been a fan of this technique for ages. Use it in cookingCoca-Cola is also a fantastic addition to many recipes. Using Coca-Cola to cook pot roast or steaks in will easily tenderize the meat for you. Mixing Coke with ketchup or barbecue sauce also makes for a delightfully sweet glaze. Clean your old coinsAnother way to use Coke to clean is to soak tarnished coins in the soda. About ten minutes should be enough to get rid of the muck.Clean your tilesIncredibly, Coca-Cola can also be applied to tiles to effectively clean grout. Let Coke sit on the tiles that need cleaning for a few minutes, then wipe away.Supercharge your compostCoke is also an impressive way to speed up your compost. The sugar in Coca-Cola feeds micro organisms, plus the acidity will help your compost break down faster.Remove gum from your hairCoca-Cola can also help you avoid a major hair disaster. If you have gum stuck in your hair, dip the gum into a small bowl of Coke and let it sit for a few minutes. The Coca-Cola breaks down the gum, allowing you to wipe it off. Fade unwanted hair dyeSimilarly, if you made a mistake with your hair dye, Coca-Cola comes to the rescue. It's probably best to get in the shower first, then pour Diet Coke over your hair. Let the soda sit for a few minutes, then wash your hair like normal. This method is effective in removing temporary hair dyes, but will likely only fade professionally applied dyes.Clean marker stainsCoca-Cola is also an easy way to remove marker stains from carpet. Apply a small amount of Coke, scrub the spot, then clean with soapy water. Again, remember that Coca-Cola is brown, so removing stains on white or light-colored carpets might be better achieved with another method.Clean your toiletCoca-Cola can also help you clean elsewhere in the house. To easily clean a toilet, pour Coca-Cola all around the bowl and let it sit. There's no need to scrub, simply flush and your toilet should be sparkling clean.Feed your plantsCoca-Cola is also a surprising way to add a little extra life to some flowering plants. Particularly with azaleas and gardenias, adding a small amount of Coca-Cola to the soil can deliver nutrients your plant may be low on. Get rid of bugs at a picnicThe last of our unusual uses for Coca-Cola is to safeguard your picnic or outdoor lunch from pests and wasps. Simply pour a small cup of Coca-Cola and set it out about a half hour before you start to eat. By placing the cup away from your site, bugs will be drawn to the soda and not your lunch.Featured photo credit: Omer Wazir via flickr.com

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