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April 6th, 2023

Dear Professor Sapp,

Re: assistance aligning data science doctoral program outcomes

Thank you and National University (NU) for extending kindness by granting me access to your challenging Doctor of Philosophy in Data Science. Experiences accumulating to this event have prepared and encouraged me to embrace this scholastic rigor and contribute to our scientific body of knowledge with measurable methods and structures based on meaningfully transformed data[1]. Artificial intelligence is achieving near-human level image, speech, autonomous driving, and natural language answering. I’m confident skills developed in the environment you oversee will further and facilitate my ability to serve humanity, delivering skilling to grow computer science professionals.

Reaching out to share my experiences as an educator and curriculum developer currently working for university course provider Noodle, building a graduate introduction to data science course, further expanding my knowledge writing at Google for their new massively open online study Advanced Data Analytics, aka machine learning, with statistics 101, and my Python pillars course focused on rapid programming skilling and the use of natural understanding with the metaphor of wiggly data blocks for training in tidy data[1] arrangements reflecting the grok necessary to arrange, index, sort, and transfer data to suit desired statistical and machine learning work with scikit-learn, Matlab, numpy, pandas, and spark on HPC clusters.

For the following class exchange request for courses TIM-8500 and TIM-8501 for TIM TIM-8430 and TIM-8150? I’ve compacted my reasoning and will further unpack or provide any evidence required. I’m very grateful and not attempting to disrespect your program's outline and faulty decision-making. I must continuously upskill to help expand my teaching portfolio, furthering my long-term value as an academic asset. I am rebuilding safety in my life and must balance economic security via diversity to support a long-term career as an educator.

As an experienced [educator](https://github.com/bbe2/professor) and curriculum developer, I deliver engaging learning experiences that help students build skills to succeed in the workplace, such as undergraduate [systems design](https://github.com/bbe2/IT.304.Fall.2022), technical [writing](https://github.com/bbe2/professor/tree/it.226.technical.communication.w.ai), and **>\_7.Pillars.Python** [skills](https://github.com/bbe2/professor/tree/7.py.pillars) course.

prove with a case study

Instruction efforts include Python coding with data structures and readiness to teach introductory statistics and machine learning courses.

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**Professional experience**

I performed 30+ industrial reengineering and application development efforts in the defense, manufacturing, and pharmaceutical in`dustries. Activities involved

* Strategic assessments, project management, and specifications.
* Coding with C++ and system design with ERD, EER, DFD, and IDEF0.
* Resolute simulations provide decision-making necessary for demand planning, resource and budget forecasting, and program management expenditures.

Such skills and knowledge add depth to lectures with realistic scenarios and teaching to discern tactical approaches. Last year I was contracted to perform as the lead writer of a Get Started with Python course as part of a 2023 seven course career certificate. I am finishing a Python coding essentials course bridging a neglected yet formative means to learn new library data objects with datacasting and transformation techniques. Who knew old C tricks could upskill nascent coders?

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**Teaching strategies**

I innovate as active learning necessitates. My computer science technical writing class works in a cloud spreadsheet, simultaneously building an assignment corpus for data mining and code training. Short readings provide contextual experience with unfamiliar but useful polysyllabic words, and group work extracts them to a syllable [word tree](https://docs.google.com/spreadsheets/d/1JHipsJc2vHGmHCyIT3TRJRaEMNVzonv1bSN7Fk1fYP0/edit?usp=sharing) to facilitate language upskilling. Such hive activities propel Friday JAMs, where students cross-pollinate and perform collaborative writing, helping accessibility students reach their potential and entwine inclusively.

I advocate for all computer science classes to include AI and coding from class 1. Student proficiency requires deep and wide AI familiarity to instantiate gut checks, nuances, and discernment thinking. My schooling vision is about something other than Blackboard click and tick but fostering a genuine interest to get busy solving. One student, Carter, said he wanted to own the search Ads that make money popping up on his searches. Now he appreciates how a corpus translates from pipeline to data advertisement decision-making.

I strive to equip each student with the skills to generate tech ideas and thrive.

Sincerely,



Brian בִּנְיָמִין‎ Hogan