

INF[67]900E Lecture 7 - Productivity


## Deliverables

March $14^{\text {th }}<-$ new deadline

- NSERC proposal, one page text, one page references
- Must fit NSERC presentation guidelines (see Moodle)
- Evaluated on structure and clarity, through peer review (due April 11th)


## Student Presentations (starting March 14th)

- Six minute presentation plus four for Q/A
- PDFs due on day of your presentation
- Can use your computer (preferred) or PDFs on my laptop
- Will be evaluated during presentation


## Talk Summary (due April 11th)

- Have three talks in class (Feb 29, March 21, April 4)
- Summary format on Moodle, at least one full page
- Evaluated based on detail of summary


## Last Lecture

1. Presenting

## This Lecture

1. Productivity
2. Guest Lecture by Amine Mhedhbi

## Productivity

## Definition of Productivity

## Productivity = Output / Input (economics)

## Input

- Spend time effectively
- Spend effort effectively


## Output

- Work on meaningful contributions
- Want to improve
- Quality of time and effort spent
- Quantity of time and effort (minimize wasted time and effort)


## Essentialism




GREG MCKEOWN

## Here, There, and the Steps Between

## Here

There

- Where do you want to go?

Requires

- Vision
- Clear goals


## Steps Between

- What steps are from here to there?


## Requires

- Planning
- Discipline

Bring increased awareness to your life

## Here, There, and the Steps Between Examples

## Here

- Can walk 3k
- l $^{\text {st }}$ year PhD
- Weak writer
- No topic defined


## There

## Example: Running 5k

- Can run 5 k in $<1$ hour


## Example: Writing a Thesis

- Two journal articles
- Industry collaboration
- Exciting topic
- Written thesis

Steps Between

- Couch to 5 k program

| Week | Mon | Tues | Wed | Thurs | Fri | Sat | Sun |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Rest | Run 1 min Walk1min Repeat $\times 10$ | Rest | Run 2 mins Walk 4 mins repeat | Rest | Rest | Run 2 mins Walk 4 mins Repeat $\times 5$ |
| 2 | Rest | Run 3 mins Walk 3 mins Repeat $\times 4$ | Rest | Run 3 mins Walk 3 mins Repeat $\times 4$ | Rest | Rest | Run 5 mins Walk 3 mins Repeat $\times 3$ |

- 2025:
- Read suggested papers
- 2026:
- Start journal paper


## Here, There, and Steps Between

## Figuring Out 'There'

- Where do you want to go? Or 'what do you want to do with your finite life?'

Years left in life: 65 years $\mathbf{x} 52$ weekends per year $=3380$ weekends left

Focus on meaningful outcomes

- Professionally, personally, "health, wealth, relationships"
- Examples: Become professor, write impactful article, learn French, raise healthy kids, run a marathon, practice painting every weekend...


## Figuring Out 'There'

How to choose?

- Align with your values (ambition, giving back...)
- What is your competitive advantage?
- What is your vision of your future life?
- What are others doing, and what resonates with you or not?
- Can't do everything

How to define?

- SMART goals




## Figuring Out＇Here＇

－Where are you now？
What are you good at，bad at，what＇s the real situation？

## Example target：Writing a thesis

－Do you find writing easy？Why or why not？
－How much time do you have？
－What＇s standing in your way？What has held you back？
－Who＇s available to help？
－Do you procrastinate？Why？（Be honest）
－Do you have anything written？Do you have a topic？
－Do you have a competitive advantage？

## Figuring Out 'Here'

- How to figure this out
- Detailed and honest examination
- Self-examination is critical
- And ask friends, supervisor, colleagues, therapist
- This is extremely difficult!
- Don't be hard on yourself
- Everyone is human and usually has imposter syndrome
- Try to remove emotions and look at situation objectively
- Can require a therapist


## Steps Between

- Not this easy:



## Detail on Steps Between

## Steps Between

- Life doesn't go 'A to $B^{\prime}$
- But things that help:
- Breaking down path to concrete steps
- Iterate
- Remember why you're doing something

Relationships (personal \& professional) are about expectations

- Be explicit and communicate about them



## Great Things



## Be Sustainable

- Life is made up of marathons, not sprints
- Be sustainable
- Keep your body and mind healthy
- Exercise
- Hydrate
- Good sleep habits
- Reduce social media
- Be social with others



## Habits / Adjust Friction

- Make good habits/tasks easier to do
- Example: Running shoes near door
- Set small goals to get momentum
- Make bad habits harder to do
- Example: Delete social media apps
- Analyze the environment to see what can change
- Cleaner working area, better software, set your routine


## Tiny Changes, Remarkable Results



## James Clear

## Adjust Work Timing

- Best idea:
- During the day, we are most productive at different times
- When are you most efficient?
- Example:
- No work before breakfast
- Best work in morning
- Easy work (emails) after lunch
- One good hour in evening



## Motivation vs Discipline

- Focus on consistency
- Practice doing it when you don't want to
- You are human, and won't want to
- Discipline is what gets things done



Time Planning

## Being a Robot

- You are human and not a robot
- But (when working) try to act like one
- Principles:
- Get tasks out of your head
- Know what you're doing next
- When executing:
- Pick next task
- Do task



## Getting Things Done

## Step 1

| $\stackrel{y}{5}$ | CAPTURE | Capture anything that crosses your mind - nothing is too big or small! These items go directly into your inbox. |
| :---: | :---: | :---: |
| $\beta$ | Step 2 |  |
|  | CLARIFY | Process what you've captured into clear and concrete action steps. You'll decide if an item is a project, next action, or reference material. |
|  | Step 3 |  |
| $34$ | ORGANIZE | Put everything in the right place: Add dates to your calendar, delegate action items, file away reference materials, sort your tasks, and more. |
|  | Step 4 |  |
|  | REVIEW | Frequently look over, update, and revise your lists. Do smaller daily reviews and bigger weekly ones. |
|  | Step 5 |  |
| $5$ | ENGAGE | Get to work on the important stuff. Use your system to know exactly what to work on when. |

## Todoist

| My Projects | $\vee$ |
| :--- | ---: |
| \# Poly | 58 |
| \# Projects | $\vee$ |
| \# Collaborations |  |
| \# Students | 16 |
| \# Teaching | 12 |
| \# Professional Developm... | 31 |
| \# Grants | 12 |
| \# SEMTL |  |
| \# Post-Doc - UdeM | 1 |
| \# Personal | 6 |
| \# Household $\AA 8$ | 43 |

29 Feb - Thursday
: Communication class - Special topics and Amine \& 1/2 ■ 10:30-11:30

Teaching / INF6900 - Commu... \#
De la Terre à la Lune et au-delà : la trajectoire de l'exploration spatiale Amphithéâtre Bernard-Lamarre (C-631)

- 12:30-13:30

Poly / Meetings and Presenta... \#
Claudio presentation MDEnet
Poly / Meetings and Presenta... \#
Gather related work for ClaudioDS and put in Overleaf
https://www.nature.com/articles/s41598-022-23101-3 https://www.overleaf.com/project/65bd0073c893e91dd68ab482
Collaborations / Pipeline Rec... \#
Work on Santiago paper
Deadline March 11 https://www.overleaf.com/project/64aeb4991f9c35e8b5d08072

Thomas Bednar: Digital Twins for Sustainable Cities, Buildings and Infrastructure
https://jku.zoom.us/w/94045582837?tk=ebN3Q6TsWFniQBL014ZxIGHPS8KHRuhPKLTPhCSjKWY.DQYAAAAV5Y219RZIU2xBLWIHMFJu.


## Productivity Methods

## https://todoist.com/productivity-methods

Kanban board


Time blocking
what most people do time blocking


## THANK YOU!

## Topics:

- 1. Productivity



## POLYTECHNIQUE

MONTREAL
Dr. Bentley James Oakes

