Research Path:
1. what decision, types (multi-stage), stakeholders, significance
2. choice probability & specify utility function (latent var)
3. simulation & optimization (Counterfactuals)
4. writing

Insight into Counterfactuals:
1. extracts response param of population (e.g sensitivity)
2. put the params in model & simulate by forward simulation based on parameters & decision of each poster

Reading papers
5. no more than one page summary

1. Condition on Context
2. Condition on section
3. read abstract as [Contract]
4. find elements of Contract in the equation (by looking at equation)
   [Model ≡ Execution]

Literature review
1. see what Component you want evidence or solution for, search, find & use

Research world
1. Smaller & more concise is better
2. it should be flawless and on Strong ground of theory
3. it should be novel & creative to be documented in A Journal

Research method
1. if you don't review & solve problem regularly with methodology you will forget it
2. speed is a key in research (deadlines & funds)
3. simplification is Extremely important build module & use rather than the invent wheel
4. review multiple times & make intuition to be quick

Strategy
1. Data Reuse (Price in two place of model)
2. Focus on
   - product review
   - text mining
   - structural modeling
   - behavioral
   - machine learning
   - app store
   } ≡ technology
3. align with multiple strong people & synergy & learning by doing
4. Focus on niche single thing for speed (organized)
5. search nkse, JMR, JM on your topic (google targeted)

General Rule
in PhD everybody is intelligent, so to compete
1. Put time, and heart enjoy with Curiosity
2. organized, small, multiple review & patience
3. move on when time, and lock on subject when time

Lesson learned
1. problem of fast reading is unorganized mind
2. problem of natural reader, is ① unorganized mind ② not summarizing & Predicting
3. when to move on: in the context when for couple of minutes you don't know, but don't forget to come back
4. when to lock in: on whole portfolio by going back and forward on each matter & reviewing (until convergence)
5. everybody's memory is good, but those who don't organize their memory, & summarize will experience difficulty → (Regularity)
6. GMAT, olympiad, ACM,... all where result of Organized mind (could be created by review, review, review, summarization) ② Intuition
   reverse: ① 3rd round olymp ② Msc com soft ③ Konkour
7. Solve problems & believe & not Fox, because a) don't disappoint people (2) help them & not let them suffer (3) make them hopeful & not allow bad people else problem & leave them suffering
8. in comm. with prof on math write & explain component by component; otherwise they will have problem understanding (concise)
9. Start with info set, who has what, & you have what? observable vs unobservable
10. Solving problems in this context is done by 3 things ① intuition ② transformation ③ translation to problem that is solved previously by someone else, but first narrow down & restrict problem
11. Advantage in research: ① Quick time to mrkt ② Follow up
12. interesting hypothesis is the one that has Comparison inside of it across different entities.
13. For research look at Quantitative data & don't waste time on uncountables
14. Be pro to live in pro & winning & not in protest (like khomeini lottery) committee
15. in empirical look at data available

web harvest

- Code pattern:

① version
② product review ✓   ⇐ Second phase using excel & notepad
③ Person's reviews
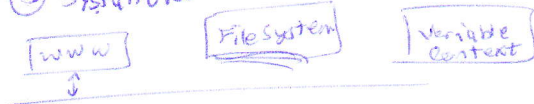
- <file action="write" path="expekt/odds.xmls">

- httpclient

- pipelines
  - ① get content of URL
  - ② convert to XML
  - ③ use xpath to extract URIs
  - ④ loop to write results
    loop index definable

  - ⑤ SysfullURL → to create full URL

  [www]   [File System]   [Variable Context]
    ↕

{ //li → tags   - take href out
{ //a   ~~

- First parameter: main URL
  max loop : # of iterations
- take out class of title/desc/price
- Normalize space to remove the extra spaces

[xPath]
ⓐ : to select an attribute
//div[@type="document"] → select divs that have attribute type="document"
//date → gets all dates in document (//person : for person)

Count(//p): Count number of paragraphs in the document
Count(//div): Counts the number of divs in doc

[1] : predicate   [1] : First in sequence
last() : Last   @ : attributes
* : wildcards   // : all children of the context node
. : context node itself   .. : parent of context node

- Concat, startrts-with, Endswith, Contains, substring, string-length
  substring-before, Substring-after, normalize-space, normalize-unicode
  upper-case/lower-case, translate, string-pad, matches, replace,
  tokenize, escape-uri

- boolean (1 and 1) → returns true   (1 or 0) returns true
  (1 and 1 and (1 or 0))

- //p[contains(., 'president')] returns true if the first string
  passed contains the second string passed

| Reappy | change Before you have to ie this | ① |

Reason Experts

① Ernan

Position: xMIT, xChicago, xWinston, xCMU, xAustin, modeling, ②UT Dallas attempt

Somebody should solve this problem

② Ali

③ Chang

4 years of life

in God we trust

Plan
① A: Summer paper Noris
② B: Gona & Ozalp
③ C: reapply

Need
→① Struct modeling seminar ② email
① Connection (remove uncertainty, and only if low cost)
② SOP
③ Recommendation
④ GMAT
⑤ TOEFL

① Austin   ④ Chicago   **limit Scope**
② A&M   ⑤ MIT   ⑦ Yale?
③ Houston   ⑥ Indiana

GMAT
① prep
② Gmatclub
→③ Review Previous (Verbal & Quant important)
④ Review new section (Integrated reasoning) ⇒ not that much important

~~Faith~~ **Reasons**
① not good placement even though works hard
② no support from faculty showing incentive to change
③ not enough support (big names for structural modeling)
- even though Ozalp is good he has not enough power in matching group

method
① simplify problem, not think about switching cost (since that may be created by uni. not wanting to)
② Targetted, focused on Connections

Connections
① Navid major (Yale)
② Rambod (Houston)
③ Texas A&M moved stu
④ UNC faculty

Navid: 2039289494
Research plan — match with prof (persuade reapply) ②

Rambod: There are good things and Bad things but generally happy.

Navid: ① extremely low prob of acceptance (1 admission per year)
② good for structural modeling
③ Coauthoring with others, and Connection through Conference

Conclusion
① Don't care about future that much, since it makes problem complex & imaginer
② Murthi & Ernan encourage selfishness, that's why they have negative energy
③ Solution: ① think about others ② do the right thing
④ Start with Coauthoring with others and if match reapply (collaboration in Conference as good signal)

Key
① Think incrementally ⟨life / paper⟩
② Trust in god
③ You are here not for selfishness, so don't ⓐ afraid ⓑ be patient ⓒ do the right thing for fun

Positive attitude
① If I always think about how hard the problem is I will turn small problem (fly) into monster & can never solve it
② I have limited energy and when I die I prefer to say that I used it for building & science creation rather than fighting and destroying
③ Focus on bright aspect, small candle's light and turn it into chandelier
④ Skill ⟨① search good things (simplifying problems) ② selective approach ③ help. ④ trust god ⑤ Be pro not protester (khomeini commits stress)⟩

Rea: ① There is not enough energy to fight bad things when they are all around you, so it is better to be pro little good things around like (honesty, love) when you think and are pro solution, you will solve more question

Android app store Projects

Data available:

1. google trend
2. ranking data of different websites
3. New app report

Scratch

(x) Short term priority

    (1) Prospect theory

    (2) availability — Bhagav ✓

                    monic ✓

    (3) Icim

(*) →(1) Mom meeting with Gonca

      (2) mom of our own meeting

① ~~Gona email~~

② ~~abstr~~

③ are theory? Alavi hypoth.

④ learning theory

⑤ estimation & theory & Mom

⑥ R) Nevo paper

① theory explains why?
    relation b/w variables

② based on theory get
    prediction & hypothesis
    testable

→ need you always be **hardworking** but forget hardship & only ~~be hard~~ recall good events (بصيره)
    ⟹ helps restricting problem to solve

→ ⑦ How to ~~esti~~ estimate Dynamic stout model

→ ⑧ Check Gonca Paper for how avail is calc & coeff — if not avail contact her

→ ⑨ ① Be independent & free but help others (Prof doesn't help)
                                     ③ discovering

    ② Learn by yourself by ① reading, ② thinking ④ teaching

    ③ Just remember good things to be focused ①
    suffering un focuses so don't recall, just know have to
    work thru ② trust in God

    ④ Your uncertainty can not be shown by asking but by
    your thinking, reading, discovering, showing
    People can't judge or tell you sol. You don't know
    they can only say good or not good; you solve

⑨ Go back to Rossi paper & read instrument part ⑤

⑩ Nevo code that is next

⑪ make sure my Bayesian creates the same estimate as Nevo code

⑫ fin prod. charact. & common to explain firefox ①
    (use dummy)

⑬ think about how incorp Dynamics ②

⑭ implement the std err of Pradeep & send him update ③

⑮ read Nevo code & learn to use ④

⑯ practice writing ③   ⑥

⑰ Start thinking about optimizing algorithms, parallel processing for structural modeling estimations (read papers related)

⑱ optimize for loop in Bayesian program

(- μe)

⊛ <u>Modeling</u> Quant

- clan → Economics :   not used directly in research

<u>Yale</u> :   Quant :   Econ oriented (<u>structural</u>) : IO

          Harvard :   stat Oriented

             <u>MIT</u> : analytical (game theory)

                  (taller)

_____

     <u>Suhddir</u> —   Econ Yale in <u>Io</u>   small <u>program</u>

- Decision <u>makers</u>?   ↓

                 <u>s'uhddir</u>   <u>one/year</u>

  (one) after per year
          ‾‾‾‾‾‾‾‾‾‾

→ analytical is also good

     maziyu↔USC

⊛ → <u>coauthor</u> with another university
       (another course from other <u>university</u>)

     problem : distance working
       ‾‾‾‾‾‾‾‾‾‾‾‾‾‾

     (good signal when in job market :
        shows <u>collaboration</u>)

           └→ create collaboration in conference

                 { know
                 { introduce
                 { collaboration

               → پیشنهاد

  → incremental research
    ‾‾‾‾‾‾‾‾‾‾‾‾‾‾‾

① Financial Engineer
    Career Center
     Other students   - Houston
                          - North east better

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② michigan

$$14 \left\{ \frac{1}{2} \right. \begin{matrix} \dot{v}_1 \\ \dddot{v} \end{matrix}$$

14 - 21 Aug

③ North Campus annharbr
        michigan ⟹ Hotel

Conclusion of apply

⇒ apply for a Jump
- Chicago
- Kllogg (Northwestern)
- wharton
- Austin

reason
: main PhD Resource (my immigration reason)

1. skills
2. Connections
3. Data

main reasons:
1. have another Option, to reduce UTD power it they betray me
2. More resource as student better ⇒
   - Dmitri → Ozlap's Friend

Challenge
1. GMAT
2. Find Profenor

Plan
1. great paper (at least two working & submited to journal to give back and better resume)
2. audit more courses

apply means
1. add more option to future
2. postpone the decision to move to future
3. My goal of PhD is not getting PhD graduation document but curiosity & learning (like B4?)

Subtask
- email to pradeep & send him MATLAB Conversion of this code (contribute back)

important dates

① Andrea for travel doc ⟶ 3 June (Procter)

① July TA. ① ~~Monday 24th June 10:30-12:45~~
            ② wed [26th June] 10:30 - 12:45
            ~~consumer behavior presentation~~

② Gonca availability: ① ~~~~ June 15th

~~③ Alex 29th May 14:00~~

③ (Norris) presentation:

   ① ~~A18 June, 6 Presentation~~

   ② [25 June] → definition detail explanation

   [exist] ③ [~~16 July~~] → Presentation

   ④ [6 Aug] → project presentation

④ (July) TA → [1st July] → Teaching
   P
            [26 June   Procter
             10:30 -12:45]   exam

⑤ (Strut Modeling Conf)

                              wake up
                              4:15.am
   [30th July]   7:15 am ⟹

   [1st AUG]   7:30 Pm   4:15 pm