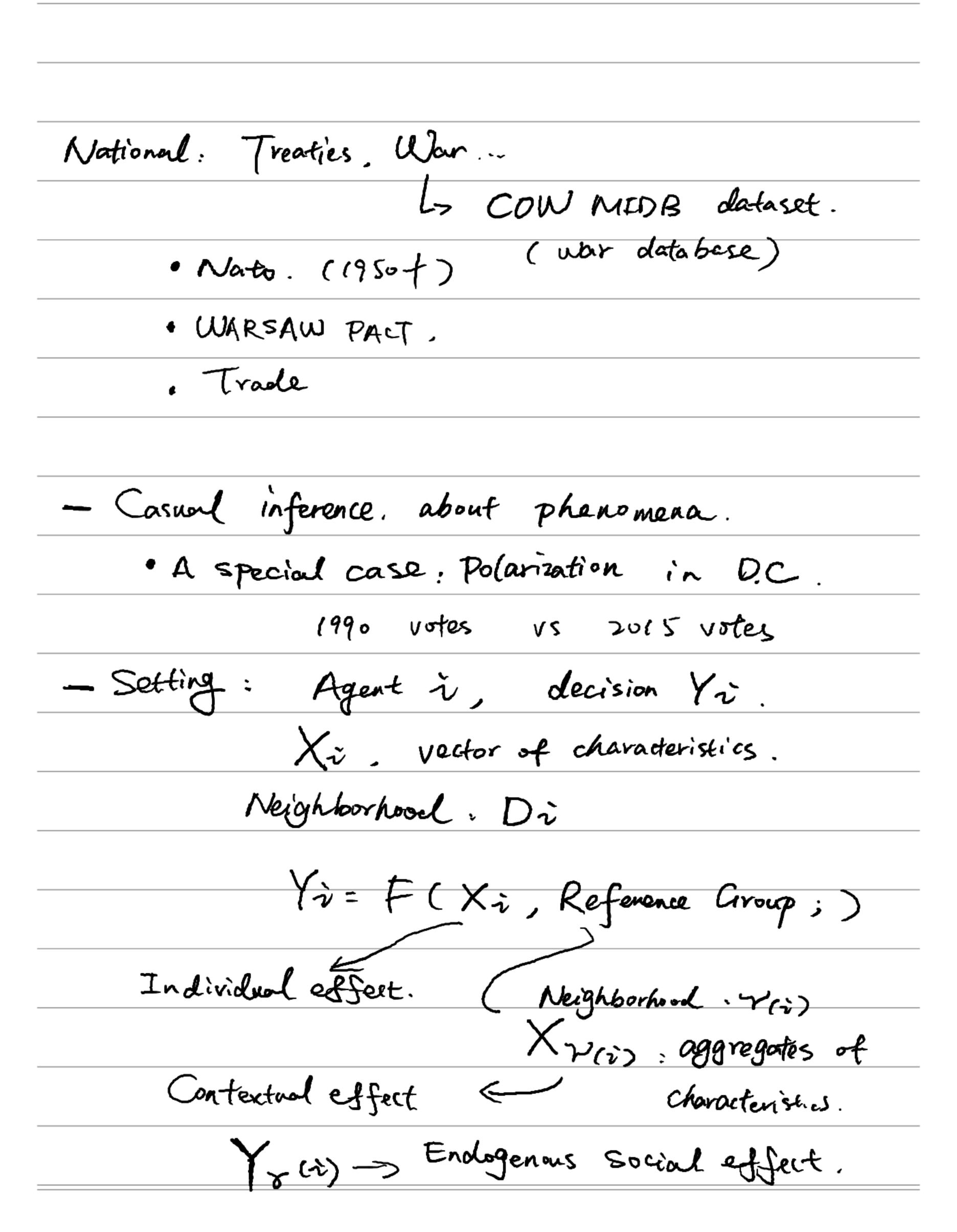
Eci	17 Schelmul
Janz	HW1
Feb 12	Hwz.
Feb 24	Proposal
March 9	Exam 1
April 6	Draft due.
April 22	Exam 2.
Aprol 27	Last class
May 7.	Pre.

Week 1. Intro.
- Zotstike epposed to writing (new teek)
Plato documented it.
- Social Media, politics/fake news manipulation
lu yrs ago, fech abused.
Web and internet (networks of computers)
Lo Berners - Lee: heml.
· Contract for the web.
regulating
EU: General data protection regulation
(cookie)
- Social elements in economic décisions.
Interactions direct agent (=> agent.
Influences do not go through market
(not reflected by prices)
Firms () Government (=> Ca
- Dovartis & Brogen Local, state. national
e.g Amaron headquarter



eg,	apai	=	FC	1'5	characteristics	J
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Neighborhoods are exogenous.

endogenous.

- Social Networks

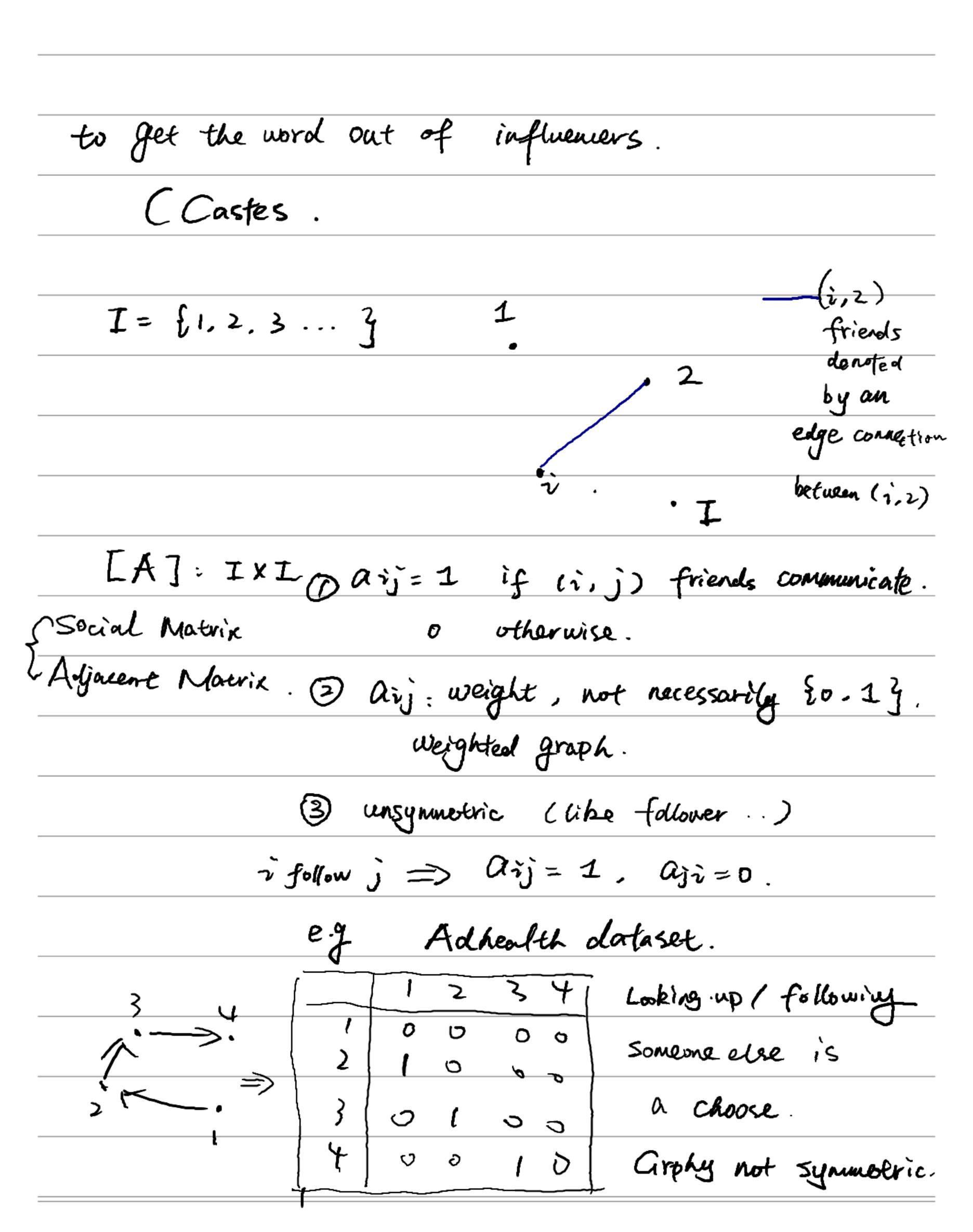
 - · Algebraic represtation.

Agent.	01	Ь	<u>C</u>	Sociomatrix.
a	0	(0	Adjagering matrix
Ь	ţ	0	(
C	0	{	D	

Week2. 20/01/22.
- Precise Technology.
Social Interactions vs. Social Network.
$Y_i: X_i, X_{\gamma(i)}, Y_{\gamma(i)}$
own Neighbors. Decisions of Social
community contacts.
·QJE Sacerdote, Bruce (2001). Peer effect, darfmonth
GPA: AcAi, ACAj, GPAj, other factors
other's academic standing.
GPA 8 (i)
e. g dorm's CIPA (average).
Assumption: (i,j) communicate (apAi, apAj)
are determined sinuxtaneously.
$GPA_{i} = S_{i} + \alpha ACA_{i} + \beta ACA_{i}$
+ V-aPAj
GPAj = Si+BACA; + XACA; + XGPAi

GPAi, GPAi = FCAGAi, AGAj)
Vouriation of theory. Decision, depends on is expectation
of i's academic performance.
Yi can be stuff like discreet variable
(Voining clubs)
- Reference Ciroup. Exogenous / Endogenous.
· Endogoneoty in Emperical Economics.
identification!
- Social Network. Decisions depend on specific.
economic agents.
· Ciroqhs, networks. / Königskerg Bridge problem
Euler.; 7 bridges.
Eulerian Path

· Diffusion of Microfinance. in India. To expose villages to microfinance, they need a way

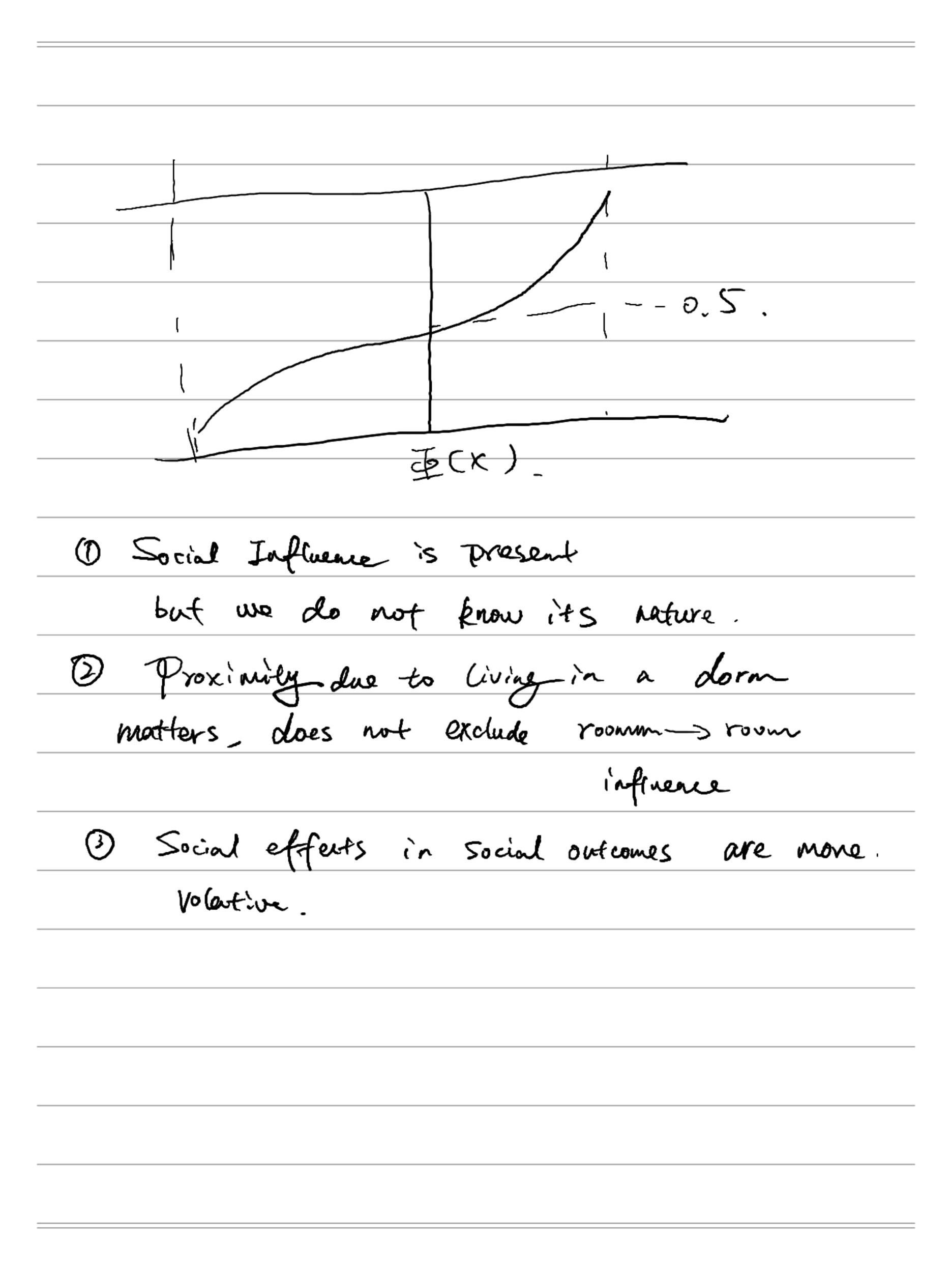


eg. Web Graph is fundamentally a directional and weighted graph.
and weighted graph.
Yi= (Xi, X8(i), Y8(i)) or E(Y8(i)) L> Classical interaction setting
Social Network, we specifix influences to (from)
Specific other individual.

Week3 20/01/27
- Squredofe(2009): Dortmouth, randomly assigned
- Squeedote(2009): Dortmouth, randomly assigned (policy): roommates, social multiplier. (policy): How to group students? By ability or
Implication: How to group students? By ability or
· Emperical: Dartmouth 1997_1998 #2000 V#1589
Pretreatment: Parrell assumption
3 1-7+ Mailman Xily + evil.
4 drink + postal + cigaretts.
3 zon6, le + running people.
- Production of GPAs: academic ability, rigor of.
teaching, time spent, infrastructure,
health, social influence, peers.
- During, treatment group, control group.

Discreet Choice (Probit/Ligic)

- Social outcome: frat/sor.

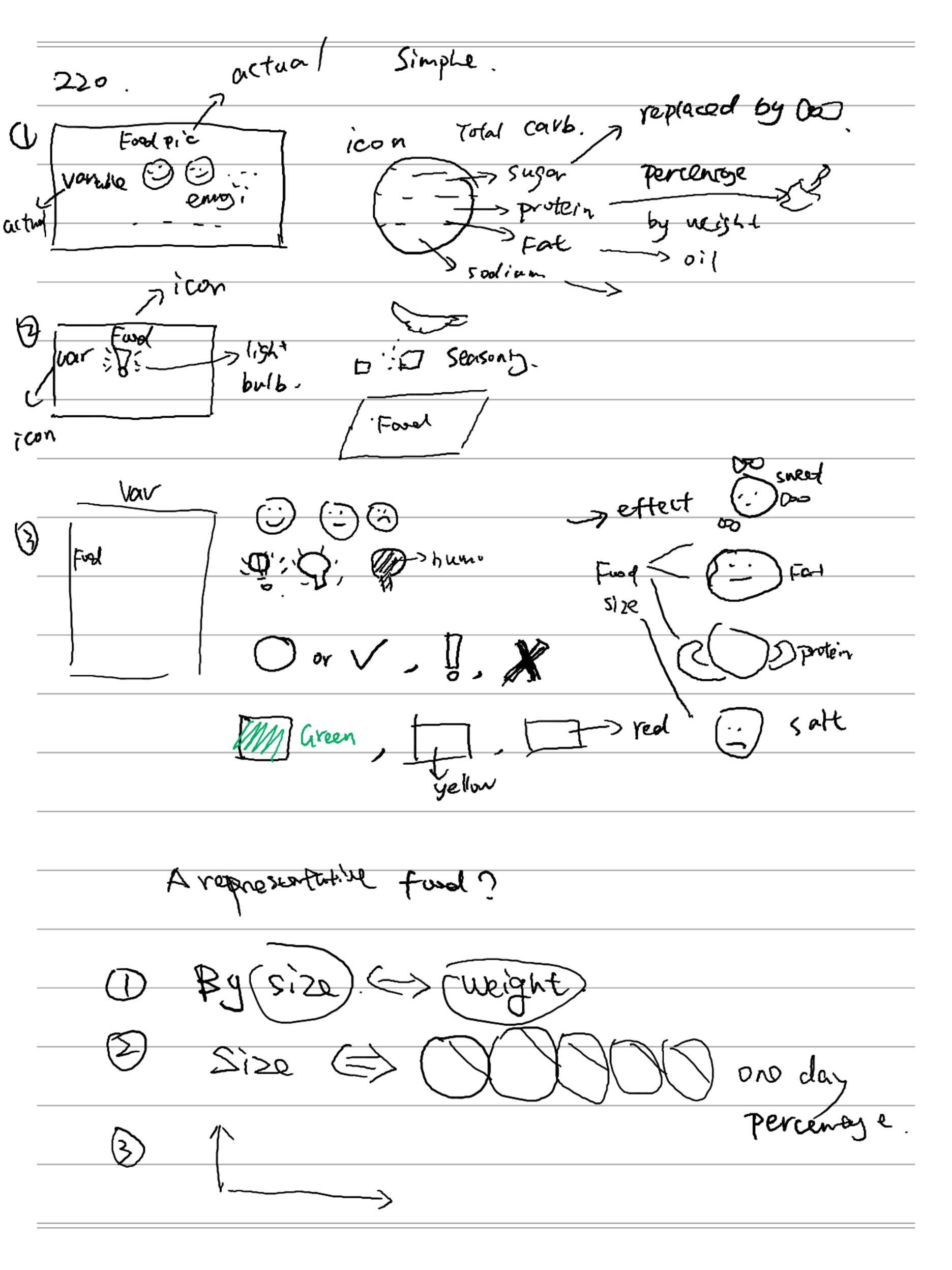


Week	4
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20/02/03

Review: Arcidiacono & Nicholson 2006.
1) Students were chosen, did not choose
one another (motching)
2) Positive peer effects
MCAT -> board score
School
Cfixed controlled)
=> Own effects are present, school peer effects
vaaish when school fix effects are included.
· Groups of Peers: vace based, gender.
based.
Fix , McAT verbal x female.
· Pear effects on specialty.
Famole, high income specialty.
· 1297, 1998, two waves / cohorts

- Keyping up the Joneses
- Data, American Housing Survey.
· Duelling units.
· Neighborhood : Clusters.
· 1985, Sampled the Same cluster
in 1989, 1993.
· Spatial, time info
> long-titudirent.
- Loannides (2013), Ch.2. P14-17
· Canonical Terminology of Manski (1993).
$\mathcal{G}_{\vec{v}} = Q_0 + QX_{\vec{v}} + \Theta Z_{x_{\vec{v}}} + +$
$y_{i} = \alpha_{0} + \alpha \chi_{i} + \theta \chi_{i} + \theta \chi_{i}$ $\beta E (Neighbors' maintenance)$
V(i): Nevghbor of i.
E[Yi[YG)]
=> Ji= do+dX;+bZzG;)+BE[yjlxG)]+E;
E(Yi), i e v(i) are consistent with own decisions
that at equilibrium.
> E[Yi] = do+ axx(i) + 8 ≥x(i) + BE[Yi]



Week 5. L1
- Back to Networks
· Jackson 2019 P32-40
· Autor et al 2014 P661-666.
· Epidemic Shiller: harractive economics
- Jackson 732-40
. Diffusion. Centrality
Medici Banking & Finance
Why successful skilled
economic relationship &
Political Connections.
keer connector,
Power of centrality
· Quantitative measures
- Autor et 2014 RCT
· Randomisias
· Natural Experiments.
· Unanticipated removal of vent control

· Meshanism: direct & indirect effects.
Two types of properties, controlled/Nover Cont.
Rent control: disincentive to landlords to
maintain,
Turnover change.
* Units: houses/condos/cooperative.
Accessment of Housing Values for taxes
· In MA, local government run school
not county government
· Model. value = f(; Amandiers)
1) How well maintained properties are.
2) upper income line nearby.
Cubb - Douglas,
In= Cn+Pnhn. Cubb- Douglas. Cn=(1-d) yn ocxcl
$U = Ac^{1-d} \wedge d$ $Pnhn = 249n$
Indirect utility function,
$U_{ID} = A_n (1-\alpha)^{1-\alpha} y_n^{1-\alpha} (\alpha y_n)^{\alpha} \cdot P_n^{-\alpha}$
= Anci-a) 1-2 ad ynpn-d
$= A_n \cdot \alpha^* y_n p_n^{-\alpha}$

U= And & yn Pn d > equilibrium (nT = lnAntlnattlnyn-dlnPn. => (npn = = ((nAn+(nda+(nyn)

Week6. 20/02/20.
· Personnel Economics 7 ICPSR Vof M
1960's Pannel Study of Income Dynamics.
- longeidinal / pannel
- Attrition
- Marieal. Labor
- Geowdes. Tract/County/state.
- Geowdes. Tract/county/state.
- Census Tract Data Cloyrs).
- Moving decisions (what factors affect this)
Self-sched
Deople with children (chars)
Deople with children (chars) Composition of neighborhoods.
Confext
* zoning. Restrictions on land use, Density
Bw66/4
* sorting / filtering
How do people interact with neighbors?
* Mobility Flexibility

Survey - self identity	Productivity
Female,	outcome
under cliscriminatum	
Me! activity	

Week 6. 21 Feb 2020 Thursday.
1. Literature Review.
. Annual reviews.
Oxford Bibliographies. Chigh level explanation)
Oxforel Bibliographies. Chigh level explanation) Dissertation Search.
· Icey word searching citation searching
· Zotero. Cifation manager.
2. Datasets.
Census. Csocial explorer). dataverse
IPUMS, (microdata)
· ICPSR (researcher data)
3. Policy map (visualization),

02/26 Weelnesday
- Paracchin' & Zenon (2011) (Sorting/neighborhu)
· Reading to Children (7-31 yrs)
= 2500 Children SENtire cohunt.
4900 panents. 13 yrs of tracking
· Courel Home = Public House.
· Questionaire
- Jackson Book.
· Mobilier & Equality
network Homophily Nobility
Incentive to get education
wage dependant on
pers employment.
. Intergenerational income clasticity Earning
earning
Raj Chetty on intergerenational mobility

Trequolity
· Gotsby Curve interwined.
Improbitieg
Spatial inequalities.
· Measure inequality.
1) aini oveffeerent.
2) US Employment by sector, service sector > tech
3) Percentage of Children earning more than
their parents.
• Education
1) Late 205, 20% Assian 50% White, 30% blak, 20% Hispan
2) Parents read to babies (# of words, huge
gaps)
3) 20% Parents does not know whether they have
an impact on the development of Children.
(3) Social Capital, pass down to papents
Human Capital, resources
(cower skilled industry, connections to get jobs)
5) Strong Tie / Weak Tie.
Reverse Casuality, Self selection.
6) Moving to oppositivues program.

e le unemployment rate.
V: Vacaney rate. (opening).
S: # of contact an individual has.
(1-U) · V Prob of getting info about an opening
1-(1-u)·v Don't pass info.
Prob that none of S confait pass into
$\frac{2}{C}(v-\omega) - i)$
Prob at least one
1- (1-4)-v) =
V1, Prob 1
at Prob V
* S= degree of the network.

20/03/02 Mon.
- Laura Gee 'Social Tie'
Ø · Social returk → better job match
weak strong tie shared friends.
> shared friends.
neu info. Subjettive report.
Granovettor (1973). Socionegisen
90% ties are week / 90% jobs through a weak Prob Job J as tie strength 1 tie.
· Novel information
· I dentifrantion. (causably)
- Structure based ties/ Contact based teles.
- Different Measures of Tie Serengen.
Overlaps / Contaits/tag

- Causality, uno	bservables.
	individual (extrovert)
	individual (extrovert) User i's fix effect.
	Dyad level
	> more educated? Jo to the
	Same school?

Week 7.	Wednes	03/March /20	2
- NLSY	OS data) He	know's use of NLSY	
- Intermed			
_ Tradeoff	intermed	us find job	enterte
		uf neg	ر رہے م
- Cyclical	in Meth	ed of Search.	
_	0	Y 8 (i)] + Z8 (i) 0-1	ر ج ^ر
	neighboriume en	ful Scontextua	deffer
_		Reflection Proble	
Neighborin Aven	ge of individual		
Characte	rtstics,		
· Heckman S	election term	E[Eil ri = Down	toun]
~ No (onger a reflect	ion problem. Self s	
		9 self s	eleofeel
	lf-selection		