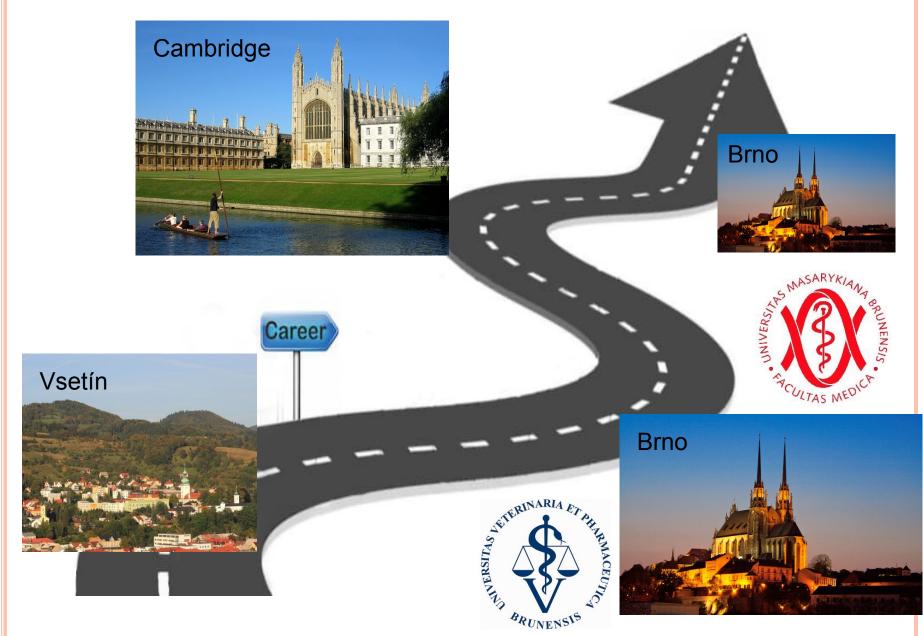
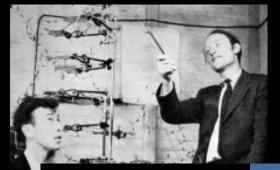
# THE HITCHHIKER'S GUIDE TO THE CAREER IN SCIENCE

Zuzana Holubcová

## My Career Path







# cell biology

Cytoskeleton Weakless in activit network organization

Spincle length control by kinesin-8 TAp73 promotes cell prolification





HUMAN EGGS ENLIGHTENED

Spindle assembly marathon favors aneuploidy



# **CAREER IN ACADEMIA**

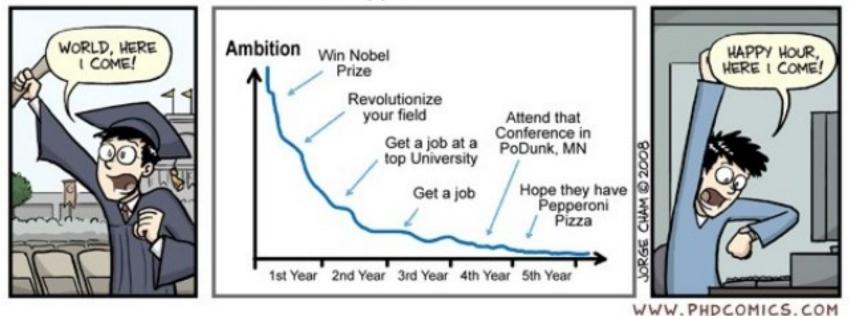
PROS



- The SCIENCE
- It's not boring
- The flexibility
- The community
- Travel
- The international friendships

- The work / life balance
- Loneliness
- The pressure to "be successful"
- Getting grants
- Lack of support
- Financial insecurity

#### YOUR LIFE AMBITION - What Happened??



'Your Life Ambition'

http://www.phdcomics.com/comics/archive/phd050508s.gif



JORGE CHAM @ 2009

The Post-<u>Doc</u> Fallacy To incorrectly assume you'll have <u>a</u> job just because you have a PhD.

> e.g. "Now what??"

#### WWW. PHDCOMICS. COM

#### CAREER STRATEGY

- Know WHY (Developing an understanding of your motivations and reasons for pursuing a particular career)
- Know HOW (Acquiring the professional and academic capabilities that are necessary to do the required work)
- Know WHOM (Building networks, relationships and sponsors; identifying helpful people)
- Know WHAT (Monitoring opportunities, threats and risks, requirements for the role)
- Know WHERE (Sourcing opportunities to enter the field, develop your capabilities and progress your career)
- Know WHEN (Judging the best timing for decisions and actions)

## CAREER SERVICE

- Career advisors, CV and Cover Letters Guides, Take Away Materials, Prospects Career Planner
- Career events, Courses/Workshops
  - Personal Development
  - CV/Cover letter writting
  - Job search tools
  - Career Stories
  - Presentation of Recruiters, Headhunter, Entrepreneurs, Investors
  - Proposal writting
- One to one appointments, Interview Preparation, Mock Interviews
- CV/cover letter review/proof reading
- Database of alumni, vacancies and opportunities (incl. Fellowships, Internships and Regionaly Based R&D Companies)



# WHAT KIND OF PHD STUDENT/POSTDOC ARE YOU?

UNDECIDED

A Post Doc

Working ..

00

I don't really know what I want to do.

sounds better than







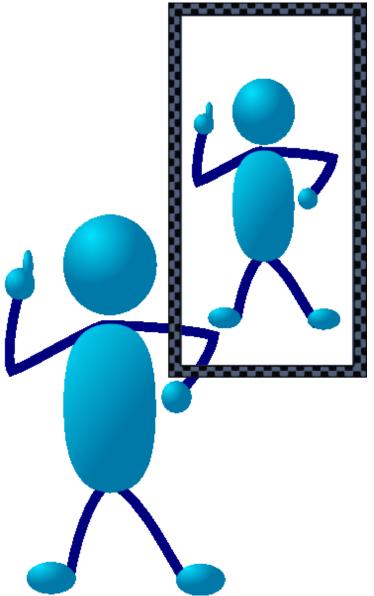






# THE IMPORTANCE OF SELF-KNOWLEDGE

What are your interested in? What motivates you? What are your skills & attributes? What are your priorities?



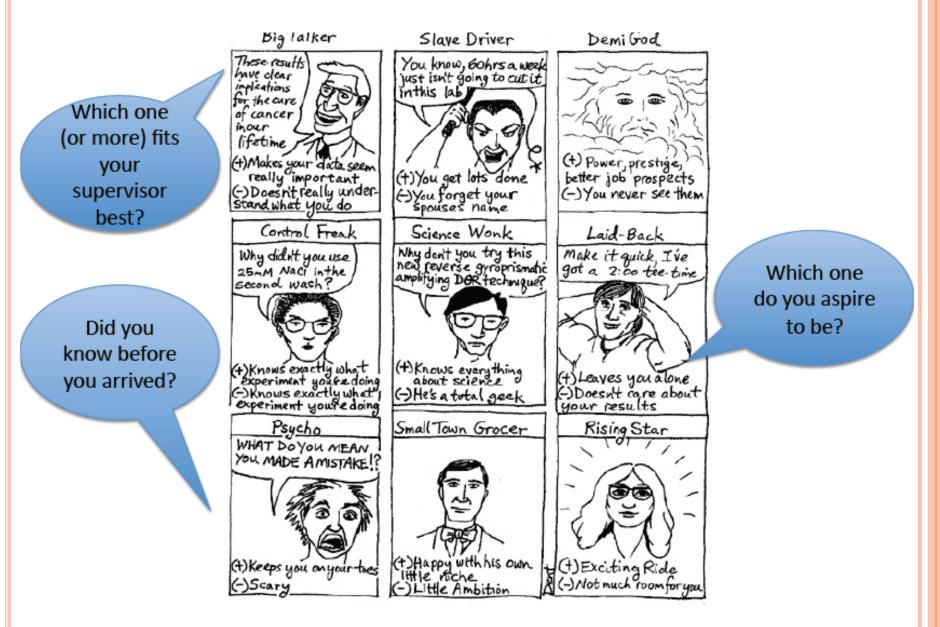
## Self-Analysis

Work-Life Balance	Team Work	Independence	
Risk Security	Leadership	Persona Personal Grown	I Possessions
	Competition	Cr Appreciation	Creativity Appreciation
Stability	Exp Wealth	pertise Responsibility	Respect
Leisure Time Challen	Work-life bala ge	ince Income Trave	I
Communication	Excitement	Flexibility	Fun
Predictible Working H	Iours Sense of A	Friendship Achievement	Networking
Contribution to S	ociety Engagem	ent Promotion Oppo	ortunity

# Self-Analysis

- Do you prefer to work alone, with little input / interference from anyone including your supervisor?
- Do you work best as a member of a team?
- Are you self-motivated or do you need a structure to help keep you on track?!
- Do you want feedback on how you are doing on a regular basis?
- Are you self-centred (even selfish ??) or do you happily contribute to the smooth running of the lab?
- Do you find it impossible to 'say no"? Do you do too much outside your own research?
- How well do you know all your own strengths and weaknesses?!
- How well do these match to your career aspirations?
- Do you face up to your own weaknesses and address them or do bury them!

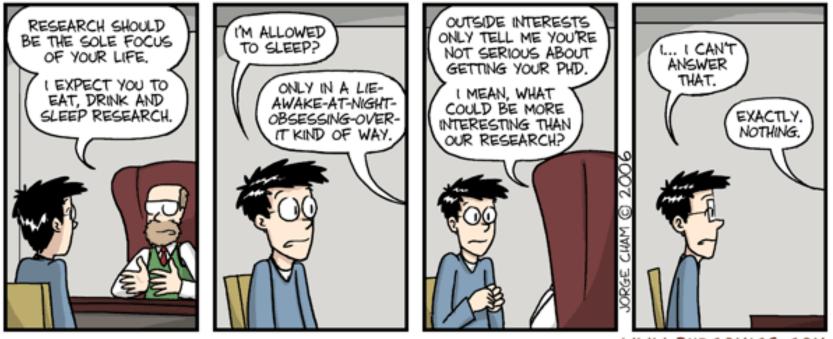
#### YOU AND YOUR PI (SUPERVISOR)



# WHAT ARE THE KINDS OF PROBLEMS THAT CAN ARISE?

- Poor communication Lack of attention, lack of time with your supervisor!
- You are not performing up to his / her standards but you don't know how to improve.
- You think that he/she is not showing enough interest in your work.
- Poor relationships within the lab –you think that poor behaviour goes unpunished / even rewarded, you feel excluded
- You are actively discouraged from taking training courses
- You are afraid to bring up problems because you think it will be "held against you"
- Life work balance: You and your supervisor don't agree on what is reasonable!

#### WORK-LIFE BALANCE

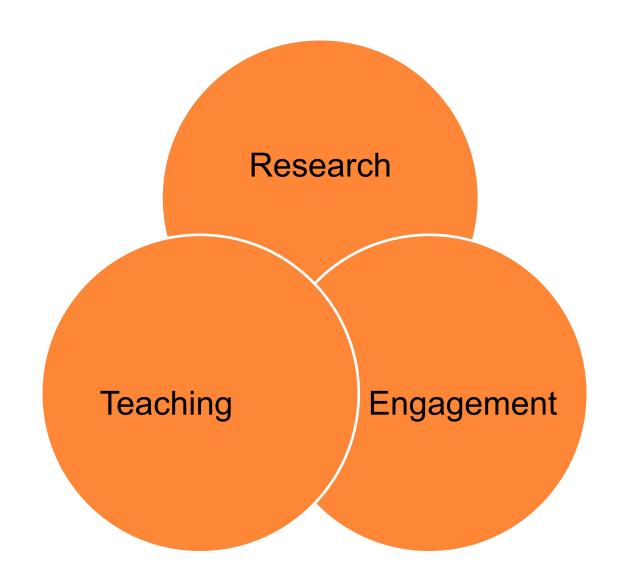


WWW. PHDCOMICS. COM

#### IF THINGS START TO GO WRONG....

#### You have to take the initiative to improve things before difficulties escalate

- If you don't speak up, then how is he/she expected to know you are unhappy? He / she is very busy, so help by making things explicit, clear, and suggest remedies yourself..!
- Develop strategies to make things work better & discuss them with him / her
- Show your self to be hardworking, dedicated and that you play your part
- Talk things over early on! No supervisor wants to have an unhappy team.



#### TEACHING

#### RESEARCH

#### ENGAGEMENT

- Quality publications and sufficient quantity and regularity
- Collaborations
- Grant funding
- Track record of quality conference presentations
- Industry connections
- Supervising research students
- Patents, commercialised research
- •Gaining research impact and recognition

### RESEARCH ENGAGEMENT

• Effective teacher

TEACHING

- Knowledgeable about teaching and learning theory and principles
- Publish about teaching innovations
- Lead or play a key role in educational innovation and enhancement
- Discipline expert who guides new educational paths

#### TEACHING

#### RESEARCH

ENGAGEMENT

- Participate in university committees
- Provide workshops / seminars on area of expertise
- Conference /Eventsupport / Coordination
- Manage projects, programs, initiatives
- Participate in projects of team activities
- Contribute as a reviewer for academic journals
- Adviser to government / industry; Board membership
- Public speaker /Commentator/ Active social media presence

#### CAREER "T"

## BREADTH

#### <u>Breadth</u>

Have you applied your skills and knowledge? How many roles have you filled? Are these roles varied and diverse? What are the key achievements ? Am I focused on the right thing? Are they visible to the others? Am I balanced? Am I well positioned to support my future aspirations?

# DEPTH

#### <u>Depth</u> What skills/expertise/ knowledge do you possess? Am I future proofed? Can I step into different academic role? Do I have sufficient depth and confidence to do so? Am I not under-utilising my skills? Do others know about my skills? What new challenges must I set?

#### OUTSIDE ACADEMIA?



Increasing search effort and likelihood of refraining BUT increasing number of opportunities

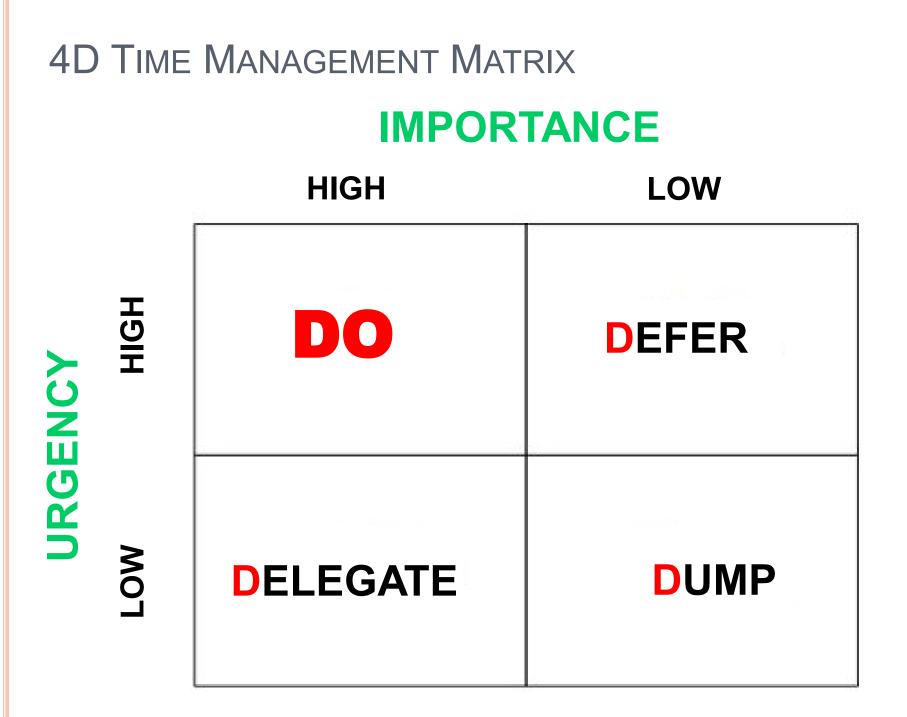
#### CAREERS OUTSIDE ACADEMIA

- Industry R&D Pharma, Biotech, Physical Sciences Firms, CRO (Contract Research Organisation), Spin-offs
- Supportive R&D Clinical Trial, Sales and Technical Support, Bioinformatics, Statistics and Commputation Biology services
- Healthcare Science, Public Health, Government Labs
- Science Communication Jounalism, Publishing, Public Relations, Science Outreach,, Education
- o Consultancy, Patent, Tech Transfer, Start-ups
- Finance, Modelling, Data analysis, Software Development
- Research Funding and Management grant management, funding bodies
- Scientific Admin, Science Policy, Training and Support Roles
- EU and International Organisations, Local Government

#### TIME MANAGEMENT

- Use planner
- Make "to do list"
- Get organised
- o Identify effective work time of the day
- Create rituals/habits
- Programme/social networks blockers
- Define your day priorities and tasks





#### **PROCRASTINATION**



#### HOW MANY STYLES DO YOU RELATE TO?

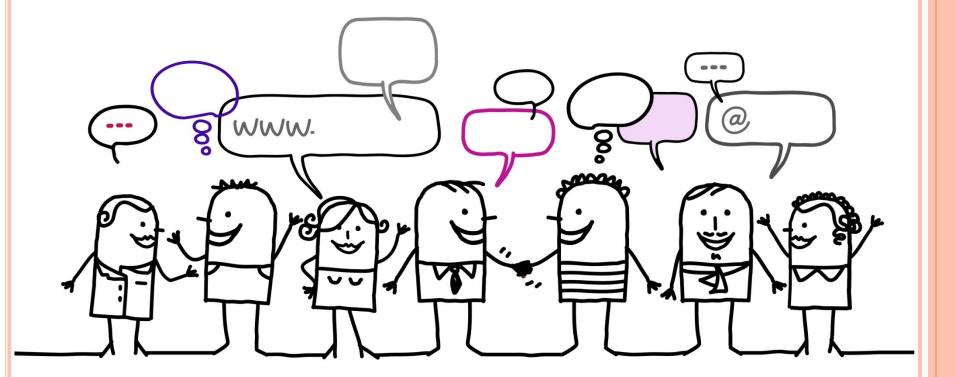
Find yourself in this chart of the six styles of procrastination.

PROCRASTINATION	PERSONALITY TYPE	THINKING STYLE	SPEAKING STYLE	ACTING	PSYCHOLOGICAL NEED FOR
PERFECTIONIST	Critical	All-or-nothing	I should I have to	Flawless	Control
DREAMER	Fanciful	Vague	1 wish	Passive	Being Special
WORRIER	Fearful	Indecisive	What if?	Cautious	Security
DEFIER	Resistant	Oppositional	Why should I?	Rebellious	Non- Conformity
CRISIS-MAKER	Over- Emotional	Agitated	Extremes "Unbelievable"	Dramatic	Attention
OVER-DOER	Busy	Compelled	Can't say "no"	Do-it-all	Self-Reliance

### How to MANAGE PROCRASTINATION

- Set a <u>realistic</u> goal
- Be realistic (rather than wishful) about time
- Break your goal down into small specific minigoals
- Just get started
- Reward your progress along the way
- Protect your time
- Use next 15 minutes
- Work in focus bursts
- Expect obstacles and standbacks





#### NETWORKING

- Collaborations
- Student Conferences, Seminars, Summer Schools, Public Talks
- Be ready for the unanticipated "elevator talk"
  - "career pathways are filled with unxpected kindness of strangers"

#### Social networks

- Research Gate
- LinkedIn
- (Facebook)
- Membership in Societies, Student communities, Academic boards,..
- Volunteering

## INTERNSHIPS







## FELLOWSHIP APPLICATIONS AND STUDENT CONTESTS

- Opportunity
  - for a career review
  - to develop/improve writting and presentation skills
  - to shape your ideas
  - to gain finantial credit/funding
  - to build networks and increase your visibility in the field
  - to improve your CV and job opportunities

















## KNOW YOUR VALUE

#### "DO NOT GO FOR COMFORT, GO FOR CHALLENGE"



# LIFE'S TOO SHORT TO WASTE TIME DOING SOMETHING YOU DON'T LOVE DOING!