

Early Fluffy Experience

“Very excited about this idea - mainly because it’s the first I’ve had in a year that actually worked.”

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“Very excited about this idea - mainly because it’s the first I’ve had in a year that actually worked.”

-- Dr Elias Gyftodimos

Guided Research



Protective arms of
“Doktorvater”



Trusted Sidekick

Guided Research



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Problem



Solution



Write-Up

Into the Wild



Field has “matured”

Time to do
“something new”

“What do you
wanna do?”

Sidekick gone over
to dark side

Life After PhD

A personal account

Money

“There’s gonna be money...”



“Post-Docs are expensive...”

FWO, IWT etc

Scary!

Topics

Follow up on
previous work

One cluster



Break with previous
work

Branch out

Follow your fancy

Freedom!

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Break with previous
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(Potential) Collaborators

Doktorvater

Post-Docs from the
group

Visiting researchers

Fellow PhDs



People that work on
your topics

People within
projects you work in

Random people you
meet

Conferences/
Receptions

What I've been doing - Stillborn MSc Thesis

Idea: basketball success depends on coach/
system, teammates

Personal topic

Method: hands-on - collect data, unleash
Tilde

Personal style

Result: demotivated student, weak
supervision, no useful outcome

Personal
disaster!

What I've been doing - Stillborn MSc Thesis

Idea: basketball success depends on coach/
system, teammates

Personal topic

Method: hand collect data, unleash
Tilde

Personal style

Result: motivated student, weak
superior, no useful outcome

Personal
disaster!

It didn't work (this time)

What I've been doing - POM

Prognostic maintenance: predict machine maintenance based on sensor readings

Real-life data, real-life application

Exciting possible
direction

Real-life problems: NDA, extreme sparsity,
unfortunate noise/signal ratio

Money aspect

What I've been doing - POM

Prognostic maintenance for aircraft machine
maintenance based on sensor readings

Real-life data, no application

Real-life problem. NDA, extreme sparsity,
unfortunate noise/signal ratio

It didn't work great (yet)

Exciting possible
direction

Money aspect

POM continued

Not an EU
project

Outside collaborators, real(!) integration

No low-level meetings early on

First after 1 year - VUB, fruitful, exasperating

Have to follow up on it

Crossovers

Redundancy

POM continued

Learning experience

Not an EU
project

Outside collaboration (!) integration

No low-level meetings early on

First after VUB, fruitful, exasperating

Have follow up on it

Crossovers

Redundancy

What I've been doing - Sanity Checker

VUB idea:

Surprise
collaboration

Sequence of events, decide on correlation/
causation by evaluating distribution time
delays

Born from/compared against episode
mining

UAI submission

What I've been doing - Sanity Check

VUB idea:

Surprise
collaboration

Sequence of events made on correlation/
causation by e.g. distribution time
delays

Born from compared against episode
mini

UAI Commission

Working out differences

What I've been doing - Dormant Idea

Idea: interesting things happen at class edges

Identify outliers within in a class

Personal topic

Identify their nearest neighbors

Derive features/rules from that subset

Method: do it, find out what happens

Personal style

No student

What I've been doing - Dormant I

Idea: interesting things happen at class edges

Identify outliers within a class

Personal topic

Identify their neighbors

Derive formal rules from that subset

Methodology, find out what happens

Personal style

Work in progress

No student

What I've been doing - Milking the Thesis

Tutorial (even tho I didn't give it)

Attempt at writing a book (w/the
collaborators of my PhD time)

Being invited to indoctrinate students

What I've been doing - Milking the Thesis

Tutorial (even though I don't give it)

Attempt at writing a book (w/the
collaborator / PhD time)

Being in to indoctrinate students

Spreading the gospel

Do we need exact
pattern mining?

It's problematic!

Exact mining:

- Potentially expensive matching (on potentially huge data sets)

- Exploring full enumeration space

Thomas: Sampling to get rid of this

Elisa/Baptiste: Simpler patterns to make feasible

Clues that we might not

For classification top-scoring doesn't matter

Randomly patterns are useful (MLers know this already)

Patterns often unstable w.r.t. data changes

Maybe time to say good-bye

Luc has been saying this for years:

Anytime, almost optimal patterns might be
what we should look for

Extend “best patterns according to...” with
“within 6 hours”?