Waiting for the motivation fairy

It’s easy to give in to procrastination — but Hugh Kearns and Maria Gardiner offer some tips for getting your drive back.

“I love deadlines. I love the whooshing sound they make as they go by.” — Douglas Adams

If you were trying to set up ideal conditions for procrastination, conducting a research project would provide them. Such projects tend to be large and time-consuming: completing a doctoral research project, for example, often takes three years or more. Deadlines and endpoints are often fuzzy and ill-defined. Then there’s the reward structure: you can put in a lot of effort with little to no positive feedback along the way, and the rewards, if there are any, take a long time to come. Add to this the fact that scientists are often perfectionists with demanding, if not idealistic, expectations, and it is little wonder that procrastination is the most discussed topic in our graduate-student and researcher workshops. Many researchers simply take for granted that they are at the mercy of the forces of procrastination, doomed to increased stress levels and stretched deadlines. But there are simple strategies for pushing yourself to get engaged. The first is to recognize the patterns that you’re falling into.

ADVANCED DISPLACEMENT

Some procrastination activities are pretty obvious. There’s the morning coffee break that creeps into lunchtime. Or watching videos on YouTube and sending them to all your friends, or updating your Facebook status when you should be updating your lab book.

But most procrastination is far more subtle, and can be even mistaken for productive work. For example, you might try to track down that elusive reference, even though you’ve already got more than you will ever have time to read. Or you could start a new experiment instead of analysing the old one. Or take stock of the glassware in the lab, or check your e-mail. These activities make it seem as though you’re doing something useful, and you may well be, but it’s not the thing you should be doing right now.

So why is housekeeping, for example, so much fun when you’re supposed to be working on your dissertation or a paper? It’s a displacement activity, used to dispel the self-reproach or discomfort that we feel for not doing something else. Reading a novel or taking a nap that difficult task look any more appealing. That’s just not how motivation works.

Most people have a fundamental misunderstanding: we like to think that motivation leads to action, or, more simply, that when you feel like doing something, you’ll do it. This model might work for things you enjoy doing, such as watching a film or going for a walk. But it’s not particularly good for huge tasks with fuzzy deadlines. The problem is that you may never feel motivated to revise and resubmit that paper — at least not until a hard-and-fast deadline appears. You need a different model.

MOTIVATION MOJO

Some psychology research shows that action leads to motivation, which in turn leads to more action. You have to start before you feel ready; then you’ll feel more motivated, and then you’ll take more action. You’ve probably had this experience yourself. You put off running an analysis for ages; eventually, you decide to do it, and once you start, you say to yourself, “This isn’t as bad as I thought. Why not keep going while I’m at it?”

Of course, starting before you feel motivated is difficult. But certain strategies can directly tackle the conditions that lead to procrastination in the first place.

First, big projects need to be broken down into steps. Not just small steps, but tiny steps. Instead of saying you’ll make the revisions to the paper — which probably seems overwhelming — the tiny step could be that you’ll read the reviewer’s comments or you’ll make the first two changes. Second, you need to set a time or deadline by which to perform that tiny step. Saying you’ll do it later or tomorrow isn’t enough — the deadline needs to have an ‘block’ attached to it. Third, you need to build in an immediate reward. If you finish reading the comments by your deadline at 10:00 a.m., you can allow yourself to have a coffee, a brief chat or a quick e-mail exchange. It’s highly likely that once you start the task, your motivation will kick in and you’ll find yourself wanting to spend longer at it.

So if the motivation fairy hasn’t stopped off at your lab or desk very frequently, perhaps you should give her a hand. The next time you catch yourself engaging in displacement activities, remember that there’s a way to recover that elusive drive. Follow our three rules and watch your motivation grow.

Hugh Kearns and Maria Gardiner lecture and conduct research in psychology at Flinders University in Adelaide, Australia, and run workshops for graduate students and advisers (see thinkwell.com.au).
A

s a graduate student, you might find yourself well on the way with your education and ‘ABD’ (all but dissertation). Day after day, you tell yourself that you really, really intend to start writing your paper. After all, you’ve collected all the data, analysed them many times and entered them into tables.

But then you start thinking that maybe you need just a few more data. Perhaps, too, you should try a different analysis technique. And what if the tables you used aren’t the right ones, or need to be formatted differently?

Many of the thousands of researchers we have worked with are constantly being tripped up by finicky, nagging details that keep them from writing up their research. Every day, they mean to start, but every day, something gets in their way or seems more important — and this can go on for years. Some very common obstacles get in the way of high-quality, high-quantity scholarly writing, but powerful, evidence-based techniques can help researchers to overcome repetitive and unhelpful habits and get moving (see ‘How to get out of a dissertation-writing rut’).

WRITING MYTHS

The biggest impediments to scholarly writing are long-held myths that seem to get passed down through the academic ranks like precious but unhelpful ancient wisdom. The first is the Readiness Myth — “I should write when I feel ready, and I don’t feel ready yet”. The secret to high output is that you have to write before you feel ready, because you might never reach that point. Researchers read endlessly and conduct countless experiments in the belief that it will eventually make them feel ready to write — we call these habits readitis and experimentitis. But ironically, all that reading and experimenting often makes them less likely to write, and more confused. So the first step is to speed up your writing is to stop waiting, stop reading and experimenting, and start writing. You won’t feel ready, but you have to do it anyway.

This brings us to the second myth, the Clarity Myth — “I should get it all clear in my head first, and then write it down”. This isn’t how writing works in practice. You have probably had the experience in which you were sure about how a paper would go until you started to write it. Then you discovered that there were inconsistencies, or it didn’t flow well or the links didn’t make sense. This tells you that it wasn’t as coherent in your head, after all. In fact, writing clarifies your thinking. Writing is not recording — you don’t just take >

COLUMN

Turbocharge your writing today

Before you can tackle the overwhelming task of huge writing projects, you must first put aside some widely held myths, say Maria Gardiner and Hugh Kearns.
Better teaching needed

The United States must boost the number of people pursuing degrees and careers in science, technology, engineering and maths (STEM), says a 23 June report from the National Academies. The nation should foster better education in schools, said the report, *Successful K–12 STEM Education: Identifying Effective Approaches in Science, Technology, Engineering, and Mathematics*. The authors also recommend improving STEM literacy to fill STEM-related jobs that do not require advanced degrees, such as science teacher or energy technician. The US Bureau of Labor Statistics says that only 4 of the 16 STEM-related jobs with the largest projected growth by 2018 need an advanced degree.

SNACK WRITING

Once researchers get beyond the myths that stop them writing, they often declare that they can't possibly write anything eloquent, insightful or clever unless they have a whole day or week to do it in. And because they don't have that amount of time, they conclude that there is no point in starting. We call this 'binge writing.' Binge writing isn't inherently wrong: it's just that, for busy people, it can greatly reduce the amount of writing they do. The alternative is 'snack writing.' This means short — but regular — writing sessions.

We suggest about 1–2 hours a day for graduate students who are writing a dissertation, and about 45–90 minutes a day for researchers trying to increase their publication output. Many researchers tell us that they couldn't possibly get anything useful written in that amount of time. The good news is that studies (which we have replicated many times in practice) show that academics who write for 30 minutes a day produce, on average, more peer-reviewed publications than academics who write for big blocks of time. But the snacks have to be regular — 45 minutes once a week doesn't work, but 45 minutes a day 5 days a week does wonders. When possible, try snack writing first thing in the morning. Our experience suggests that this increases the chances of success by minimizing distractions and ensuring that you have sufficient energy to write clever things. However, for snack writing to lead to really high-quality results, you also need to write in a very specific way.

WHAT IS WRITING?

Before we tell you what writing is, we should tell you what it isn't, at least for the purposes of snack writing.

Writing isn't editing: you should not spend your brief snack-writing time trying to find the perfect word or getting your grammar right. Writing isn't reading journal articles for research: write first and read afterwards, so that your writing shows you what you need to read. Writing isn't referencing: when you make that killer argument and want to reference Smith and Brown (2006; or maybe it was 2007?), don't stop and look it up. Write "Smith & Brown (2007)?" and keep going. You can look up the reference later.

Moreover, writing is not formatting, literature searching, photocopying, e-mailing or nosing around on Facebook. Writing — at least for your snack-writing sessions — means putting new words on the page or substantially rewriting existing words.

So, you might ask, when do you do all the editing, reading and other associated tasks? The answer is, any time in the other 23 hours and 15 minutes of the day — just not during your snack-writing time.

So stop waiting to feel ready. Get started with some short and regular writing snacks. What you write won't be perfect at first, but you will be on your way to becoming a prolific academic writer.

Maria Gardiner and Hugh Kearns lecture and research in psychology at Flinders University in Adelaide, Australia, and run workshops for graduate students and advisers (see thinkwell.com.au).

Women want flexibility

Female early-career researchers with newborn babies are most likely to want to keep their jobs if their employers provide security and flexibility, including the right to leave work to care for an ill child, a study finds. Published on 23 May in the bi-monthly *Journal of Applied Psychology* (D. S. Carlson et al., *J. Appl. Psychol.* doi:10.1037/a0023964, 2011), the study reports better job retention for new mothers who stay physically and mentally healthy as a result of accommodations. Lead author Dawn Carlson, a professor of management at Baylor University in Waco, Texas, says that scientists should check how a prospective employer handles the needs of families before accepting an offer.

To retain female staff, universities should allow maximum flexibility. "Whether extending the tenure clock or some other measure, the organization has to figure out a way to support these people if they want to reduce turnover," says Carlson.