What's next? Academic path after your PhD

PhD days

Eva Miranda, May 3rd, 2024
You spent 3-4 years thinking of a specific problem...
And now what?
What you would like to do...

...take some time off....
What you need
to...
Keep climbing....
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<tr>
<th>Etapa 1 / R1</th>
<th>Inicial PhD candidate</th>
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<td>Etapa 2 / R2</td>
<td>En formació Junior postdoc</td>
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<td>Etapa 3 / R3</td>
<td>Prèvia a estabilització Senior postdoc</td>
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<td>Etapa 4 / R4</td>
<td>Personal estable Leading researcher</td>
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A world to explore
Start your next adventure...
A postdoc abroad?

Staying closer... Juan de la Cuervo, Beatriu de Pinós... specific opportunities at CRM with Maria de Maeztu
Family pressure

To get a stable job

- There is the continuous pressure to get a permanent job.
- True that postdoc is a period on which you do not hold a permanent job.
- Temptation to leave to a stable situation.
- Think of the postdoctoral phase it as a way to improve your chances to get a better job soon.
Pros and cons
Of a postdoctoral career

- **Pros**: Additional expertise.
  
  New research groups.
  
  Excitement of a new adventure.
  
  New culture and language.

- **Cons**: Having to move abroad
  
  Lack of stability
  
  Starting a family.
If you decide to stay in science or research after completing your doctorate, there is a wide range of career options open to you.

Postdocs offer excellent opportunities to gain research experience and qualify for the next step up the career ladder.
Why should I do a postdoc? Realising your own research idea with an international partner broadens horizons and enables new experiences. Also personal experiences? Passport to new culture and language.
Soft postdocs: A research stay or visit will not only enable you to establish new contacts abroad and gain an understanding of the research and higher education system; it can also make it easier to decide in favour of a research career abroad.
Personal level: Sometimes deciding to go abroad coincides with the moment to start a family.

Is it possible to do both?
If you are a woman and you plan to start a family, you may find this moment of your life hard. Let’s talk about this!

Some specific grants: L’Oréal Foundation, Simons Emmy Noether fellowships at the Perimeter Institute, Christiane Nüsslein-Volhard-Stiftung – Stipendium, etc…
The n-body problem
Is not solvable but...

The two-body problem: Couples who are both planning a career can receive targeted support from dual career networks at universities.
Bringing your significant others abroad

Is not easy

The n-body problem: Travelling abroad with a whole family is tricky but it is not impossible even if the n-body problem is not integrable.

Several grants: Marie Curie, Alexander von Humboldt Foundation, Beatriu de Pinós offer additional funds for bringing the family.
Where to go? Europe?

- Marie Curie Actions (individual or in a network)
- COST postdocs
- La Caixa targeted postdocs
- Alexander Von Humboldt postdocs
- DFG Excellence Clusters in Germany
- DAAD stays in Germany
- FSMP postdocs in Paris
- Fundación Areces Postdocs
- Rafael del Pino grants
- France: ANR postdoctoral opportunities
- Postdocs under VIDI grants in the Netherlands
- UK: EPRSC opportunities
North-america

The American dream....

- NSF grants
- Specific postdoc at SLmath (former MSRI) associated to specific research programs.
- Postdoc at universities: Berkeley, MIT etc....usually advertised on their websites.
- Use: [https://www.mathjobs.org/](https://www.mathjobs.org/)
- Other: Canadian mathematical society CRM-ISM Postdoctoral Fellowships
Asia and other opportunities

New opportunities

• The big China.

• Japan.

• Korea. Korea Institute For Advanced Study (KIAS)

• Hong-Kong university

• Australia and New Zealand

• Mexico and South-america: Specially Chile offer many postdoctoral positions.
Final advice: Organise postdoc applications with time. At least, one year in advance.
In mathematics, there is no one path to success. You have to find your own way and embrace the challenges along the journey.

Maryam Mirzakhani