



**DR. ANDREA CALIFANO**  
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December 21, 2017

Mr. Mathieu Carriere  
65 boulevard du Marechal Joffre, Batiment B4,  
92340 Bourg-la-Reine, France

Dear Mathieu:

I am pleased to offer you a position as a full-time Postdoctoral Research Scientist in Dr. Raul Rabadan's laboratory within the Department of Systems Biology. As is the case with all academic appointments, your appointment is made in accordance with the provisions of the University's Statutes and the other rules of governance of the University. Here we have put together a summary of some of the key administrative aspects of your appointment which you can use as a guide as a member of the Columbia University research community.

#### Term and Termination

Your initial appointment will be for 12 months effective July 1, 2018, and subject to satisfactory completion of your Ph.D. degree. Reappointment for subsequent terms is dependent on many things including funding, satisfactory progress in training and the performance of all duties. If you are not going to be reappointed, you will be given as much notice as possible, usually 90 days. If you decide to resign from your position, you are expected to provide 90-days written notice. When your appointment ends, we expect that you will have completed all of your responsibilities, including the timely completion of research-related materials.

#### Compensation and Benefits

We will pay you an annual salary in the amount of \$55,000 to be paid on a semi-monthly pay cycle in the amount of \$2,291.67 (on the 15<sup>th</sup> and the last day of the month). In addition to your salary, you will be entitled to the benefits associated with Officers of Research as outlined in Columbia University's Benefits Highlights <http://www.hr.columbia.edu/hr/benefits/page-section.html>. **Please be aware that you must sign up for health benefits within 31 days of the effective date of your appointment.**

#### Duties

The specific scope and responsibilities of your position should be discussed with Dr. Rabadan so that your role both in the laboratory and on specific projects is clear. In summary, under his guidance, you'll be performing cutting-edge research projects that combine machine learning and Topological Data Analysis (TDA) to tackle the inherent complexity and biological interpretability of single-cell approaches. Your duties will include developing, implementing and applying algorithms; writing research articles; and presenting the results of your research in the regular meetings of the lab. All requests for time away from the laboratory should be discussed with Dr. Rabadan and should be scheduled taking the needs of the laboratory into consideration.

As an Officer of Research, you are subject to the policies and procedures outlined in the Faculty Handbook and other University documents. A copy of the Handbook is located at: <http://www.columbia.edu/cu/vpaa/fhb>. You may also wish to review and avail yourself of the resources made available by the University's Office of Postdoctoral Affairs at <http://postdocs.columbia.edu/>. Furthermore, in compliance with the Immigration Reform and Control Act, you must provide proof of eligibility to work in the United States, by using the I-9 form; instructions are available at <http://hr.columbia.edu/wac/workplace/i-9>. Note that within three business days of your start date, you must go in person to an I-9 Service Center, to complete the I-9 and present us with original documents, as listed in Section 1 of the I-9 online, which identify you and indicate you are eligible to work in the United States.

If you have any questions about the above, please do not hesitate to contact our Department Hiring Manager, Leah Dimond at [ld2385@cumc.columbia.edu](mailto:ld2385@cumc.columbia.edu) or 212-305-4868. Again, welcome to Columbia University. We look forward to working with you to make this an enjoyable and productive period as you progress towards an independent research career.

Sincerely,



Dr. Andrea Califano  
Clyde and Helen Wu Professor of Chemical and Systems Biology,  
Departments of Systems Biology, Biochemistry & Molecular Biophysics,  
Biomedical Informatics, and Institute of Cancer Genetics  
Chair, Columbia Department of Systems Biology  
Director, Sulzberger Columbia Genome Center  
Associate Director, Herbert Irving Comprehensive Cancer Center



Dr. Raul Rabadan  
Professor of Systems Biology and Biomedical Informatics (in the Institute for Cancer Genetics)

Agreed: \_\_\_\_\_  
Mathieu Carriere

Cc: Departmental Administrator  
Office of Postdoctoral Affairs