

# Peer Community In & Peer Community Journal



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From preprint recommendation to Diamond  
Open Access publication



PCI

# Scientific publishing

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## **Too long**

Cascade of submissions/rejections  
Sometimes between 1 or 2 years between submission and publication



## **Opaque**

Evaluation reports and editor's name not published  
Data, scripts and codes often not published  
Conflicts of interest not disclosed  
70% of articles are behind paywalls



## **Pernicious**

The income of the publisher depends directly on the number of articles accepted



## **Too expensive**

9 billion € / 3 millions articles = 3000 € / article (France: ~ 150 M € /year)  
Extraordinary profit margin (35-40% for the 5 big publishers)



## **Researchers do nearly everything...for free**

As authors, editors, reviewers,  
they write, evaluate, edit, proofread

Re-appropriate the publication  
system:

Peer Community In  
&  
Peer Community Journal

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# Peer Community In & Peer Community Journal

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A double publication system



Peer Community In  
“PCI”

Peer Reviewed and  
recommended preprints



Peer Community Journal  
“PCJ”

Diamond Open Access  
generalist journal

## The aim of PCI

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**Communities of researchers** handling the **evaluation** of (through peer review) and **recommending preprints** in their scientific field.

bioRxiv

arXiv.org

zenodo

HAL  
archives-ouvertes.fr

OSF PREPRINTS

etc ...

*PCI Ecology*

*PCI Evolutionary Biology*

*PCI Genomics*

*PCI Microbiology*

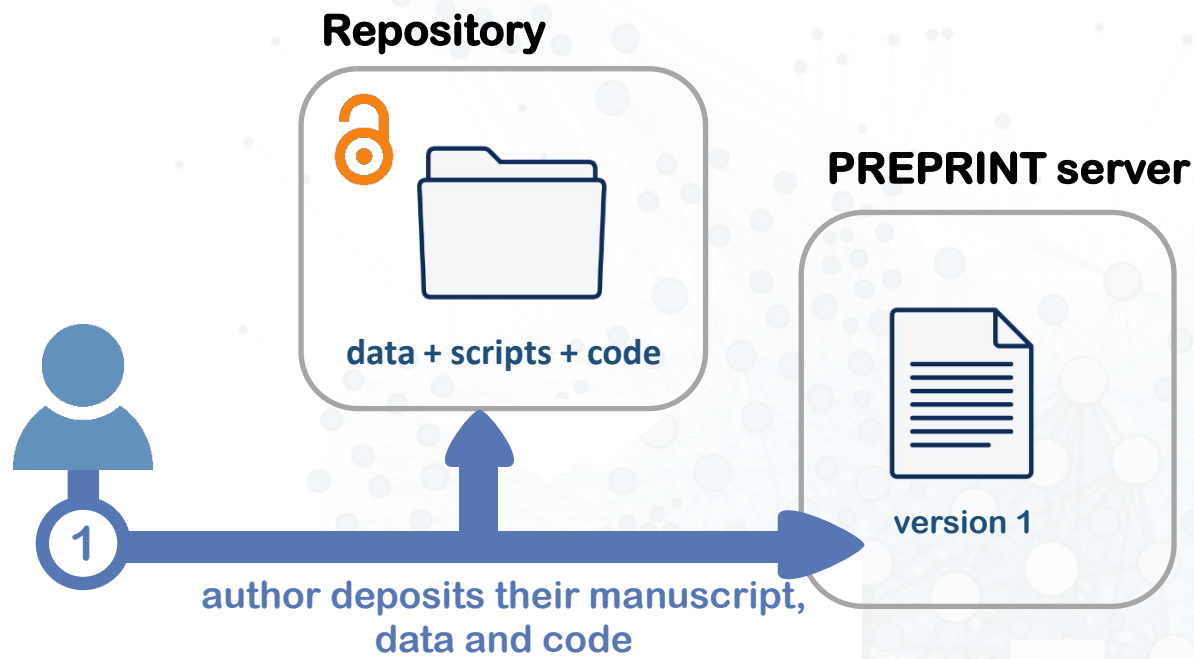
etc..

A complex network diagram with numerous nodes of varying sizes (small dots, medium circles, and large white circles) connected by thin, light blue lines. The nodes are distributed across the slide, with a higher density in the center and some clusters on the sides. The overall effect is a sense of a large, interconnected system.

# How does PCI work?

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## Repository



## PREPRINT server



## PCI website



1

author deposits their manuscript,  
data and code

2

author submits  
the DOI/URL



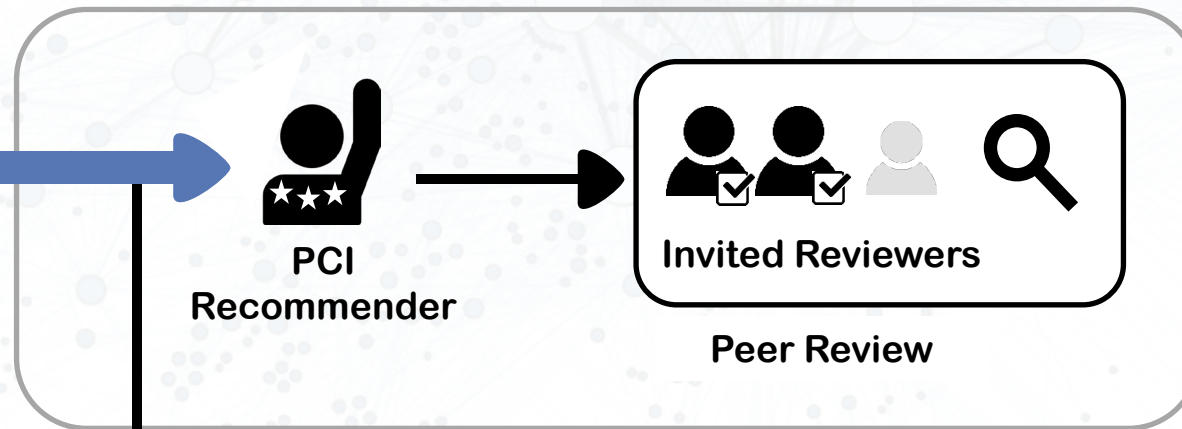
## Repository



## PREPRINT server



## PCI website

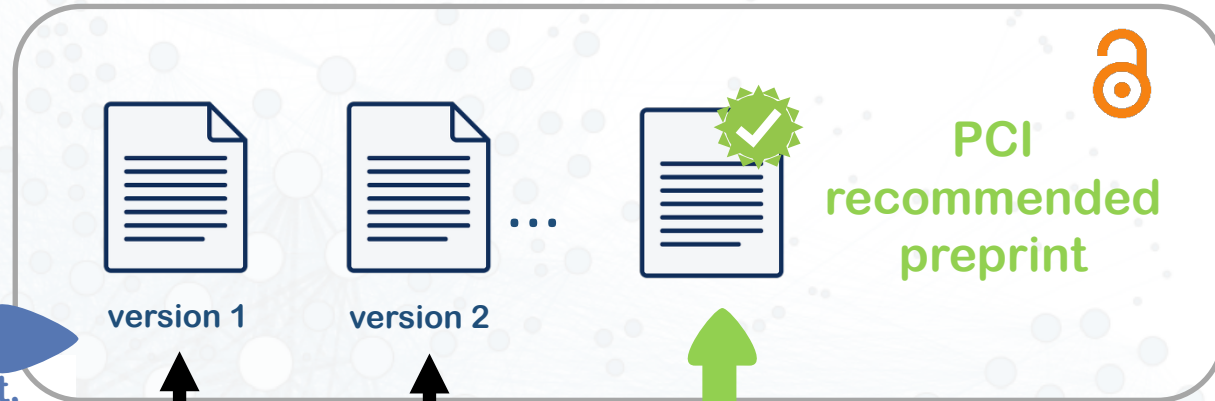


Not considered

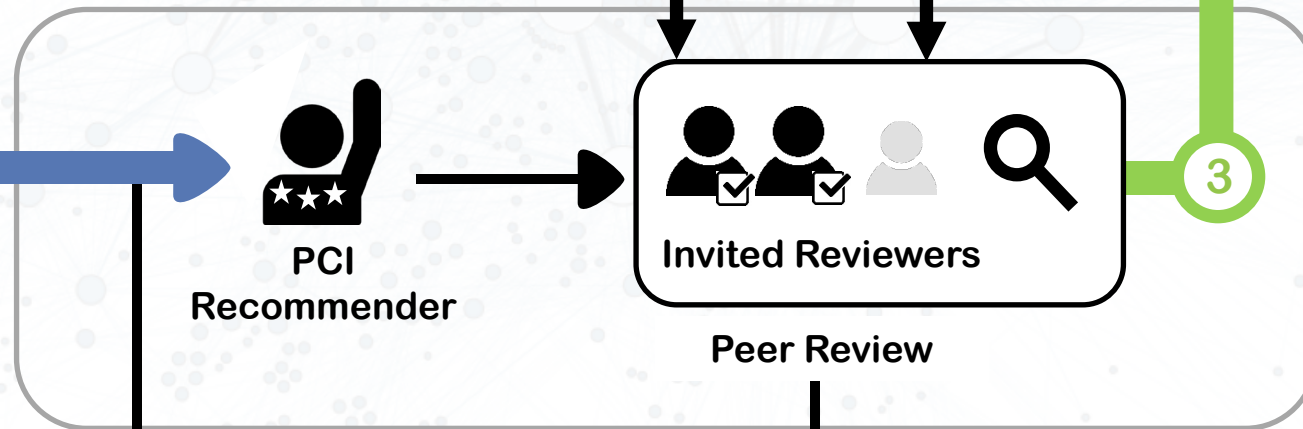
## Repository



## PREPRINT server



## PCI website



Not considered

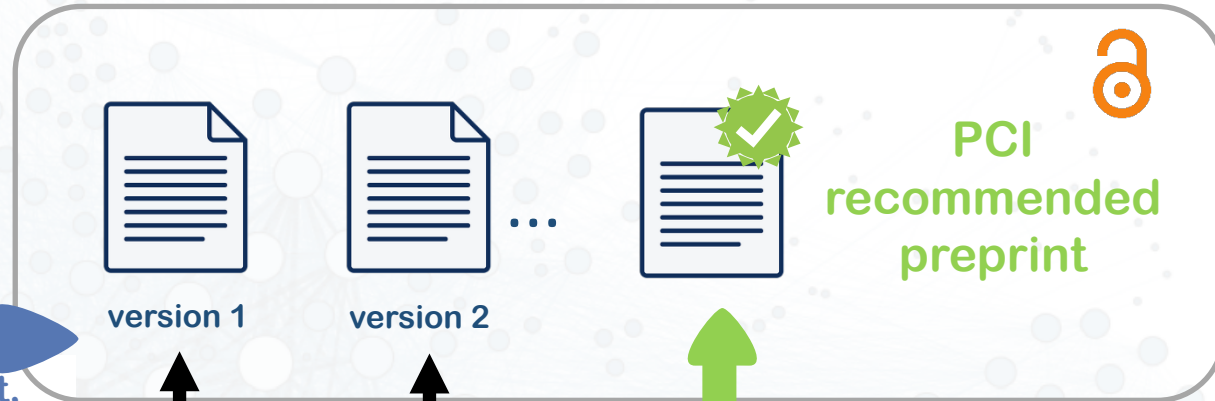
Rejected

PCI

## Repository



## PREPRINT server



## PCI website



Not considered

Rejected

PCI



PCI-recommended  
preprint



OR

**Peer Community  
Journal**

Direct publication in diamond open access



OR

**PCI-friendly** journals



**Other journals**

# PCI-friendly journals

## 3 categories

### 1. Accept without further reviews (14)

- Acarologia
- Advances in Cognitive Psychology
- Belgian Journal of Zoology
- Cadernos de Linguística
- Frontiers of Biogeography
- International Journal of Limnology
- Journal of Lithic Studies
- OCL - Oilseeds and fats, Crops and Lipids
- Peer Community Journal
- Peer J
- PeerJ Computer Science
- Rethinking Ecology
- Theoretical Roman Archaeology Journal
- Tropical and Subtropical Agroecosystems



### PCI RR-friendly journals

- Addiction Research & Theory
- Advances in Cognitive Psychology
- Advances in Methods and Practices in Psychological Science
- Brain and Neuroscience Advances
- Cambridge Educational Research e-Journal
- Communications in Kinesiology
- Cortex
- Experimental Psychology
- F1000Research
- Human Population Genetics and Genomics
- In&Vertebrates
- Infant and Child Development
- Journal for Reproducibility in Neuroscience
- Journal of Cognition
- Meta-Psychology
- Neurolmage: Reports
- Peer Community Journal
- PeerJ
- PeerJ Computer Science
- PeerJ Physical Chemistry
- PeerJ Organic Chemistry
- PeerJ Inorganic Chemistry
- PeerJ Analytical Chemistry
- PeerJ Materials Science
- Psychology of Consciousness: Theory, Research, and Practice
- Royal Society Open Science
- Swiss Psychology Open
- WiderScreen

# PCI-friendly journals

## 3 categories

1. Accept without further reviews

2. Fast response ( $\leq 5$  days) to presubmission enquiry (36)

Accept without further reviews **OR** Need further reviews **OR** Not interested

- Animal Welfare
- Annals of Forest Science
- Bulletins et Mémoires de la Société d'Anthropologie de Paris (BMSAP)
- Bulletin of the History of Archaeology
- Collabra: Psychology
- Communications in Kinesiology
- Ecology and Evolution
- Ecology Letters
- European Rehabilitation Journal
- European Scientific Journal
- European zoological journal
- Evolution
- Evolution Letters
- Evolutionary Applications
- Evolutionary Ecology
- FEMS Yeast Research
- GigaByte
- GigaScience
- Heritage
- Journal of Applied Entomology
- Journal of Applied Microbiology
- Journal of Avian Biology
- Journal of Biogeography
- Journal of Computer Applications in Archaeology
- Journal of Evolutionary Biology
- Journal of Iran National Museum
- Journal of Neolithic Archaeology
- Journal of Open Archaeology Data
- Journal of the Israel Prehistoric Society
- Letters in Applied Microbiology
- Molecular Ecology
- Oikos
- PLOS Biology
- Préhistoires méditerranéennes - Mediterranean Prehistories
- Quaternaire
- Veterinary Research



# PCI-friendly journals

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## 3 categories

1. Accept without further reviews
2. Fast response ( $\leq 5$  days) to presubmission enquiry
3. May use the evaluations of PCI if adequate (31)

- Adansonia
- Agronomy for Sustainable Development
- Animal
- Animal microbiome
- Anthropolinguistics
- Archäologische Informationen
- Botany
- Botany Letters
- Brazilian Journal of Motor Behavior
- Canadian Journal of Animal Science
- Canadian Journal of Fisheries and Aquatic Sciences
- Canadian Journal of Forest Research
- Canadian Journal of Zoology
- Comptes Rendus Palevol
- Cryptogamie, Algologie
- Cryptogamie, Bryologie
- Cryptogamie, Mycologie
- EXARC Journal
- FACETS
- G3: Genes, Genomes, Genetics
- Genetics
- Genome
- Geodiversitas
- Global Ecology and Biogeography
- Internet Archaeology
- Journal of Pollination Ecology
- M@n@gement
- Mathematical Modelling of Natural Phenomena
- Naturae
- Neuroanatomy and Behaviour
- Zoosystema

## Peer Community Journal

Search articles, authors, Q Search Browse by volumes Browse by section

### Latest Articles



Evolutionary Biology

**Relaxation of purifying selection suggests low effective population size in eusocial Hymenoptera and solitary pollinating bees**

Weyna, Arthur ; Romiguer, Jonathan

10.24072/pcjournal.3 - Peer Community Journal, Volume 1 (2021), article no. e2.

With one of the highest number of parasite, eusocial and pollinator species among all insect orders, Hymenoptera features a great diversity of specific lifestyles. At the population genetic level, such life-history strategies are expected to decrease effective population size and efficiency of purifying selection. In this study, we tested this hypothesis by estimating the relative rate of non-synonymous substitution in 110 species to investigate the variation in natural selection efficiency throughout the hymenopteran tree of life. We found no effect of parasitism or body size, but show that relaxed selection is associated with eusociality, suggesting that the division of reproductive labour decreases effective population size in ants, bees and wasps. Unexpectedly, the effect of eusociality is marginal compared to a striking and widespread relaxation of selection in both social and non social bees, which indicates that these keyline pollinator species generally feature low effective population sizes. This widespread pattern suggests specific constraints in pollinating bees potentially linked to limited resource and high parental investment. The particularly high load of deleterious mutations we report in the genome of these crucial ecosystem engineer species also raises

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### Sections

Animal Science

Archaeology

Circuit Neuroscience

Ecology

Ecotoxicology & Environmental Chemistry

Evolutionary Biology

Forest & Wood Sciences

Genomics

## Peer Community Journal

Section: Ecology

### RESEARCH ARTICLE

Published  
2022-01-19

Cite as

Claire Stragier<sup>1</sup>, Sylvain Piry<sup>1,2</sup>, Anne Loiseau<sup>2</sup>, Mamadou Kane<sup>1</sup>, Aliou Sow<sup>1</sup>, Youssoupha Niang<sup>1</sup>, Mamoudou Diallo<sup>1</sup>, Arame Ndiaye<sup>1</sup>, Philippe Gauthier<sup>2</sup>, Marion Borderon<sup>3</sup>, Laurent Granjon<sup>2</sup>, Carine Brouat<sup>1,2</sup>, and Karine Berthier<sup>1,2,4</sup>

Correspondence  
[carine.brouat@ird.fr](mailto:carine.brouat@ird.fr)

Peer-review

Peer reviewed and

recommended by

PCI Ecology,

<https://doi.org/10.24072/pci-ecology.100044>

BY

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Attribution 4.0 License.

**Interplay between historical and current features of the cityscape in shaping the genetic structure of the house mouse (*Mus musculus domesticus*) in Dakar (Senegal, West Africa)**

Claire Stragier<sup>1</sup>, Sylvain Piry<sup>1,2</sup>, Anne Loiseau<sup>2</sup>, Mamadou Kane<sup>1</sup>, Aliou Sow<sup>1</sup>, Youssoupha Niang<sup>1</sup>, Mamoudou Diallo<sup>1</sup>, Arame Ndiaye<sup>1</sup>, Philippe Gauthier<sup>2</sup>, Marion Borderon<sup>3</sup>, Laurent Granjon<sup>2</sup>, Carine Brouat<sup>1,2</sup>, and Karine Berthier<sup>1,2,4</sup>

Volume 2 (2022), article e11

<https://doi.org/10.24072/pcjournal.85>

### Abstract

Population genetic approaches may be used to investigate dispersal patterns of species living in highly urbanized environment in order to improve management strategies for biodiversity conservation or pest control. However, in such environment, population genetic structure may reflect both current features of the cityscape and urbanization history. This can be especially relevant when focusing on exotic commensal rodents that have been introduced in numerous primary colonial European settlements. Accounting for spatial and temporal cityscape heterogeneity to determine how past and recent demographic events may interplay to shape current population genetic structure of synanthropic rodents may provide useful insights to manage their populations. In this study, we addressed these issues by focusing on the house mouse, *Mus musculus domesticus*, in Dakar, Senegal, where the species may have been introduced as soon as Europeans settled in the middle of the nineteenth century. We examined genetic variation at one mitochondrial locus and 15 nuclear microsatellite markers from individuals sampled in 14 sampling sites representing different stages of urbanization history and different socio-economic environments in Dakar. We used various approaches, including model-based genetic clustering and model-free smoothing of pairwise genetic estimates. We further linked observed spatial genetic patterns to historical and current features of Dakar cityscape using random forest and Bayesian conditional autoregressive models. Results are consistent with an introduction of the house mouse at colonial time and the current genetic structure exhibits a gradient-like pattern reflecting the historical process of spatially continuous expansion of the city from the first European settlement. The genetic patterns further suggest that population dynamics of the house mouse is also driven by the spatial heterogeneity of the current cityscape, including socio-economics features, that translate in habitat quality. Our results highlight the potential importance of accounting for past demographic events to understand spatial genetic patterns of non-native invasive commensal rodents in highly urbanized environment.

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Peer Community Journal is a member of the  
Centre Mersenne for Open Scientific Publishing  
<http://www.centre-mersenne.org/>

e-ISSN 2804-3871

- Launched in November 2021
- Accepts “as is” any and only recommended articles
- Free for readers and authors
- Already 214 articles published
- 17 sections
- CC-BY Licence
- Indexed in DOAJ



- Applications for indexation in WEB OF SCIENCE



# Consequences

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- **Big savings for research agencies** (300 €/paper instead of 3000 € on average)



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- A mean to resist the big publishers' business (diamond OA)

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- **Transparency** of evaluations
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- **A single evaluation for many journals**
- A mean to break the publishers' business (diamond OA)
- recognition of reviewers' and recommenders' work



A complex network diagram with numerous nodes of varying sizes (small dots, medium circles, and large circles) connected by thin, light gray lines. The nodes are distributed across the slide, with a higher density in the center and bottom. The text is centered over this background.

# PCI in figures & Current PCIs

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# PCI in figures



17

PEER  
COMMUNITIES



1054

SUBMITTED  
ARTICLES



551

RECOMMENDED  
ARTICLES



55

MEDIAN TIME TO  
1ST DECISION (DAYS)



>5000

TWITTER  
FOLLOWERS



>6000

REGISTERED  
USERS



2000

RECOMMENDERS



130

MANAGING BOARD  
MEMBERS



1235

REVIEWERS



92

FRIENDLY  
JOURNALS



>12000

VISITORS TO  
PCI WEBSITES



165

SUPPORTING  
ORGANISATIONS

# Current PCIs

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## 2017

PCI Evolutionary Biology

## 2018

PCI Ecology

PCI Paleontology

## 2019

PCI Animal -Science

PCI Zoology

## 2020

PCI Mathematical and  
Computational Biology

PCI Forest & Wood Science

PCI Network Science

PCI Genomics

PCI Archaeology

PCI Circuit Neuroscience

## 2021

***PCI Registered Reports***

PCI Ecotoxicology and  
Environmental Chemistry

PCI Infections

## 2022

PCI Microbiology

PCI Health & Movement  
Sciences

## 2023

PCI Organization Studies



A complex network diagram with numerous nodes of varying sizes and colors (light blue, grey, and white) connected by thin, light blue lines. The nodes are distributed across the entire slide, with a higher density in the center and bottom right. The text is centered over this network.

# Supports, awards and recognition

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# Supports

Ouvrir  
la science!

INRAE



université  
PARIS-SACLAY



UNIVERSITÉ DE  
MONTPELLIER



AgroParisTech



École Pratique  
des Hautes Études



PCI



# Supports

## NORTH AMERICA

Harvard  
Library



Bibliothèque  
Library



## UNITED KINGDOM



## EUROPE



Max Planck Ins  
for Evolutionary



## OTHER COUNTRIES





# Sign and share the **#PCIManifesto**

<https://peercommunityin.org/pci-manifesto/>



Promise to **submit at least one of my best articles to a PCI** for peer review before the end of 2023 and, if recommended, **to publish it in Peer Community Journal.**

Target = 500 signatures

→ **1,055** colleagues have signed so far

# Thanks!

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<https://peercommunityin.org>

<https://peercommunityjournal.org>

# The PCI team

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Marjolaine Hamelin  
Support officer



Denis Bourguet  
Co-founder and member  
of the PCI board



Thomas Guillemaud  
Co-founder and member  
of the PCI board



Benoit Facon  
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adviser



Michael  
Ajanaku  
Web  
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oper  
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