

# D I P L O M A



UNIVERSITÉ  
DE GENÈVE

ON BEHALF OF THE UNIVERSITY, WE, THE UNDERSIGNED, ATTEST THAT

*Ms Irène DAUBARD*

HAS SUCCESSFULLY PASSED THE EXAMINATIONS REQUIRED UNDER THE UNIVERSITY ACT  
AND PURSUANT TO THE RULES AND REGULATIONS OF

*The Faculty of Science*

AND HEREBY CONFER UPON HER THE DEGREE OF

*Master of Science in Environmental Sciences  
of the University of Geneva*

TOGETHER WITH ALL THE RIGHTS AND PRIVILEGES APPERTAINING THERETO

The Rector

The Dean

The Secretary General



validated by the seal of the University

OFFICIAL REPORT ESTABLISHED IN GENEVA, ON 20 DECEMBER 2021 N° 8141-4214834725  
ORIGINAL VERSION. THE FRENCH VERSION OF THIS DEGREE IS ON THE BACK.

# D I P L Ô M E



UNIVERSITÉ  
DE GENÈVE

AU NOM DE L'UNIVERSITÉ NOUS, SOUSSIGNÉS, CONSTATANT QUE

*Madame Irène DAUBARD*

A SUBI AVEC SUCCÈS LES ÉPREUVES PRÉVUES PAR LA LOI SUR L'UNIVERSITÉ ET LES RÈGLEMENTS DE

*La Faculté des sciences*

LUI DÉLIVRONS LA

*Maîtrise universitaire en sciences de l'environnement  
de l'Université de Genève*

AVEC LES DROITS ET LES PRÉROGATIVES QUI Y SONT ATTACHÉS

Le Recteur

Le Doyen

Le Secrétaire général

PROCÈS-VERBAL ÉTABLI À GENÈVE, LE 20 DÉCEMBRE 2021 N° 81414214834725  
LA VERSION ANGLAISE DE CE DIPLÔME, AU VERSO, FAIT FOI.

# DIPLOMA



UNIVERSITÉ  
DE GENÈVE

ON BEHALF OF THE UNIVERSITY, WE, THE UNDERSIGNED, ATTEST THAT

*Ms Irène DAUBARD*

HAS SUCCESSFULLY PASSED THE EXAMINATIONS REQUIRED UNDER THE UNIVERSITY ACT  
AND PURSUANT TO THE RULES AND REGULATIONS OF

*Geneva School of Social Sciences*

AWARDS THE

*Complementary Certificate in Geomatics  
of the University of Geneva*

TOGETHER WITH ALL THE RIGHTS AND PRIVILEGES APPERTAINING THERETO

The Rector

The Dean

The Secretary General



OFFICIAL REPORT ESTABLISHED IN GENEVA, ON 28 JUNE 2021 N° 81414216891720  
ORIGINAL VERSION, THE FRENCH VERSION OF THIS DEGREE IS ON THE BACK

validated by the seal of the University

# D I P L Ô M E



UNIVERSITÉ  
DE GENÈVE

AU NOM DE L'UNIVERSITÉ NOUS, SOUSSIGNÉS, CONSTATANT QUE

*Madame Irène DAUBARD*

A SUBI AVEC SUCCÈS LES ÉPREUVES PRÉVUES PAR LA LOI SUR L'UNIVERSITÉ ET LES RÈGLEMENTS DE

*La Faculté des sciences de la société*

LUI DÉLIVRONS LE

*Certificat complémentaire en géomatique  
de l'Université de Genève*

AVEC LES DROITS ET LES PRÉROGATIVES QUI Y SONT ATTACHÉS

Le Recteur

Le Doyen

Le Secrétaire général

PROCÈS-VERBAL ÉTABLI À GENÈVE, LE 28 JUIN 2021 N° 81414216891720  
LA VERSION ANGLAISE DE CE DIPLÔME, AU VERSO, FAIT FOI



# R É P U B L I Q U E   F R A N Ç A I S E

MINISTÈRE DE L'ENSEIGNEMENT SUPÉRIEUR, DE LA RECHERCHE ET DE L'INNOVATION

UNIVERSITÉ DE LA POLYNÉSIE FRANÇAISE

## L I C E N C E

Vu le code de l'éducation, notamment ses articles L. 613-1, D. 613-3 et D. 613-6 ;

Vu l'arrêté du 19 mai 2017 relatif à l'accréditation de l'université de la Polynésie française l'habilitant à délivrer des diplômes nationaux ;

Vu les pièces justificatives produites par MME IRENE DAUBARD, née le 12 février 1998 à UTUROA - POLYNESIE FRANÇAISE en vue de son inscription à la licence ;

Vu les procès-verbaux du jury attestant que l'intéressée a satisfait au contrôle des connaissances et des aptitudes prévues par les textes réglementaires ;

### V U   L E   P A R C O U R S   T Y P E   B I O D I V E R S I T E ,   E C O L O G I E

Le diplôme de **L I C E N C E** de SCIENCES, TECHNOLOGIES, SANTE Mention SCIENCES DE LA VIE,  
mention : ASSEZ BIEN

est délivré à MME IRENE DAUBARD

au titre de l'année universitaire 2017-2018 et confère le **grade de licence**,  
pour en jouir avec les droits et prérogatives qui y sont attachés.

Fait à Punaauia, le 23/11/2018

Le titulaire



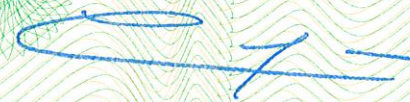
N° UPF 0009726

2018/254

Le Vice-recteur de la Polynésie française

  
  
Philippe COUTURAU

Le Président de l'Université



Patrick CAPOLSINI



MINISTÈRE DE L'ÉDUCATION NATIONALE  
ACADÉMIE DE POLYNÉSIE FRANÇAISE

# DIPLÔME DU BACCALAURÉAT GÉNÉRAL

Vu la convention État-Polynésie française n° HC/56-07 du 04 avril 2007 relative à l'Éducation en Polynésie française,  
Vu le procès-verbal de l'examen du baccalauréat général établi le 02 juillet 2015 par le président du jury, enseignant-chercheur,

Le diplôme du baccalauréat général

en série **SCIENTIFIQUE spécialité SCIENCES DE LA VIE ET DE LA TERRE**

avec mention **ASSEZ BIEN**

est conféré à **Madame DAUBARD IRENE VAHINETUA A TAAROA**

né(e) le **12 février 1998 à UTUROA-RAIATEA, POLYNESIE FRANCAISE (987)**

pour en jouir avec les droits et prérogatives qui y sont attachés.

Fait à Papeete (Tahiti), le 24 novembre 2015

*Pour le Ministre de l'Éducation nationale et par délégation  
le Vice-recteur de Polynésie française,*

  
**Jean-Louis BAGLAN**



*La Ministre en charge de l'Éducation  
en Polynésie française,*



**Nicole SANQUER-FAREATA**



*Signature du titulaire,*



**N° 150144096807**

Il est rappelé que les fraudes et tentatives de fraude sont passibles de sanctions pénales (\*) et peuvent conduire à la suspension de l'instruction ou des droits dont le bénéfice était demandé.

(\*) dans les conditions prévues aux articles 313-1, 313-3, 433-19 et 441-7 du code pénal

Vous êtes prié de faire des photocopies : il ne sera pas délivré de duplicata



**Katarzyna Wac**

Professeure ordinaire

Ligne directe: 022 379 02 46

Katarzyna.Wac@unige.ch

Genève, 10 November 2021

### **Reference Letter for Irène Daubard**

It is my great pleasure to write this letter of reference for Irène Daubard. As a Professor in the Institute of Information Service Science (ISS) at the University of Geneva, Switzerland, I have got to closely collaborate with Irène for almost a year (April – November 2021) in the context of the Quality-of-Life (QoL) research group, which I lead.

Irène joined our group as research assistant and was -almost instantly- assigned a key role in the group. Since the beginning of our collaboration, she has demonstrated outstanding abilities in undertaking responsibilities related to research, development, and managerial tasks.

One of the major projects of Irène involved carrying out research and development around Quality-of-Life for the 'Bien Vivre Dans Nos Territoires Genevoises' project. Particularly, on behalf of the QoL group, she was responsible for collaboration with multiple tools and different perspectives. She completed the project successfully by developing a novel, end-to-end Machine Learning-based solution, and spatial representations for Quality-of-Life index for the canton of Geneva. The solution comprised both a base monitoring process of the Geneva's QoL to a final representation of the QoL of the Geneva's population. During this project, which involved diverse skills and capabilities (Biodiversity and ecosystem services knowledge, Machine Learning, GIS software skills and project development), Irène exhibited outstanding performance and successfully delivered solutions for the population's QoL to the authorities by combining social and environmental sciences. Despite the problems encountered throughout this work, Irène kept her good humour and motivation trying to combine environment and biodiversity with her research.

Besides the above, since day one, she has collaborated and worked for the project described above that involved the collaboration between the QoL group and the Département de Territoire Genevois. She has demonstrated extraordinary skills in communication and oral presentation for different publics. Additionally, she led several meetings with different Professors and professionals, completing and enhancing the project with high success.

Overall, Irène is a highly skilled academic, with deep knowledge in the areas of biodiversity, spatial analysis, and ecosystem services, with high intellectual curiosity and distinct analytical skills. She has a great personality, and she is highly social and respected among his colleagues. She has a high drive, energy, and excellent leadership skills.

I am sure that Irène is an excellent candidate for the position of 'Biologiste ou ingénieur(e) en gestion de la nature' for Ecotec, Biologie et Environnement. I strongly believe that she will be a valuable member of the Department and that her academic and professional pursuits will offer outstanding gains for the office.

I sincerely recommend Irène Daubard and support her academic and professional pursuits. If I may answer any questions you have, please do not hesitate to contact me.

Sincerely,

Full Professor of Computer Science

**Fleur Hierink**

Scientific collaborator GeoHealth group  
Institute of Global Health & Institute for Environmental Sciences  
University of Geneva  
[fleur.hierink@unige.ch](mailto:fleur.hierink@unige.ch)  
+41 22 379 007 91



April 11, 2022  
Genève, Switzerland

To Whom it May Concern,

I first met Irène Daubard as a master student at the University of Geneva where I was a teaching assistant in the course *Geomatique 2* (September-December 2019). During this course in 2019 she worked with her peers on the spatiotemporal prediction of dengue risk in the Philippines. In this project Irène showed great interest in spatial data preparation, analysis, and visualization. She was extremely dedicated to the project and never hesitated to reach out in case of questions or challenges. Over the course of the project I was very impressed to follow the development and growth of her skills in QGIS. Over a time period of just 3 months she was able to process and manage multiple spatial climatic layers and run statistical analysis to assess the association between weather & environment and the proliferation of *Aedes* mosquitoes.

Because of her interest in the dengue project she continued to work with me for her research project as part of the Advanced Certificate in Geomatics at the University of Geneva (May 2020-April 2021). In this project Irène continued to improve the dengue risk model for the Philippines. Instead of working in QGIS, she was extremely eager to further improve her skills in the programming language R. She managed to set-up her entire workflow in the R environment and visualized all her results using R. Her skills continued to grow and as a co-director of her research project I learned a lot from the functions she applied in her scripts. She is a quick learner, that solves any data challenges in a professional and creative way.

Besides her strong technical skills, Irène is an incredibly hard worker when it comes to learning new things. She has shown dedication, motivation and perseverance when challenges arose during the project. She was pro-active in planning appointments and never failed to translate her technical challenges and questions in accessible and easy-understandable language, a key asset when it comes to data analysis. In addition, the outcome of her project was further used for the development of a tool developed by the Netherlands Red Cross, used by policy-makers in the Philippines. The tool helps people in the field to distribute preventative measures for dengue in a targeted manner. I got to know Irène as a friendly, interested, professional, collaborative, creative, patient, and pleasant co-worker. I have no doubt that she has the necessary technical and personal skills for any future position in the field of research or data analysis. I wish Irène all the best in her career.

Yours sincerely,  
Ms. Fleur Hierink

Scientific collaborator and PhD candidate