



THE UNIVERSITY OF
MELBOURNE

Melbourne School of Graduate Research Agreement for a Jointly-Awarded PhD Degree (including French Cotutelle)

ATTACH DOCUMENTS & ADDITIONAL PAGES AS APPROPRIATE

NOTE: This is not an application form for PhD candidature. Applicants must complete the University's application for PhD candidature.

This form must be submitted by the department in addition to the local or international application form either at the time of application or after the candidate has commenced (and must accompany the Cotutelle contract from the partner institution if a French institution).

The University's privacy statement can be viewed at <http://www.unimelb.edu.au/unisec/privacy/studentinfo.html>, or a copy can be requested from the Melbourne School of Graduate Research reception.

TITLE	Mr.	FAMILY NAME	Genish	STUDENT NO.	300812385
GIVEN NAME(S)	Hadar		SCHOLARSHIP	"Doctoral fellowship of excellence" from BIU	
ADDRESS	51/3 Ze'ev Brande St., Petah-Tikva, Israel				
POSTCODE	49600	CONTACT NUMBERS	972-544931834		
EMAIL ADDRESS	Hadargenish@gmail.com / Hadar.Genish@biu.ac.il				
QUALIFICATIONS	M.Sc. in Physics				
UNIVERSITY OF MELBOURNE DEPARTMENT	Physics				
PROPOSED PARTNER INSTITUTION & DEPARTMENT	Bar-Ilan University, Physics Department				
LEAD/HOME INSTITUTION	Bar-Ilan University				

Questions 1a & 1b below DO NOT need to be completed if the partner institution is located in France or if the partner institution is a member of Universitas 21 (U21).

- 1a. Has the proposed partner institution been approved by the Associate Dean (International) of the Faculty for a joint PhD arrangement? Yes No
- 1b. Has the proposed partner institution been approved by the International Relations Office (IRO) for a joint PhD arrangement? Yes No

Please attach a copy of each approval. If No to either or both 1a and 1b, approval must be sought from both the University of Melbourne's International Relations Office and the Faculty prior to submitting this Form.

2. Evidence of ongoing or developing research collaboration including any existing agreements

The laboratory at BIU has started a program in the study on single photon emitters in strongly coupled cavities based mainly on NV centers but also on other various color centers in diamond crystals. We have set up a microscope for characterizing and locating these centers and have established techniques for manipulating nano-crystals into optical cavities and fibers. The Melbourne group is a world leader in diamond fabrication, characterization and application and we will use the abilities of both groups to advance this research quickly. As part of the developing collaboration between the groups Mr. Genish is visiting the UoM for a period of three months to work in Prof. Prawer's group.

3. Research Topic

The quantum properties of NV centers in diamond in the presence of defects in the surrounding crystal

4. Please describe why a jointly-awarded PhD would enhance the proposed PhD research

The expertise of the Melbourne group in the field of optically active color centers in diamonds will be of great importance in the experimental work of Mr. Genish. The nano fabrication technologies and the spectroscopic methods and equipment in the BIU labs will be combined with the production and characterization of diamond crystals for a number of fundamental quantum optics experiments. Mr. Genish will benefit greatly by having joint advisors and learning the relevant techniques from each one.

5. Proposed supervisors, qualifications and supervisory experience to completion: University of Melbourne

Professor Steven Prawer,

6. Proposed supervisors, qualifications and supervisory experience to completion: Partner Institution

Professor Michael Rosenbluh, Head of the Quantum Optics and Spectroscopy Laboratory at Bar-Ilan University. Well over 30 Ph.D. and MS students have completed their thesis under his supervision over the years.

7. Proposed period of residency at each institution (minimum 12 months at each institution)

University of Melbourne: 3 months starting in Nov. 2012 and an additional 9 months in 2014.

Partner Institution: 2013 – starting in February. 2015 all year.

8. Proposed language of thesis

English

9. Will either institution require an oral examination / thesis defence? Yes No

Both institutions are responsible for payment and arrangement of any oral examination for their respective side of the oral examination.

Proposed location and duration of the oral examination / thesis defence:

Will the oral examination be conducted as a video conference? Yes No

Provide details of the agreed funding arrangements for examiners (including travel/accommodation costs and any video conference costs). Please note that costs associated with an oral examination may include hire of video-conference facilities, flights or other transport costs of examiners to the video-conference facility, accommodation and meal expenses.

10. Arrangements for fees: A PhD candidate will pay tuition fees only in the home institution

The tuition fees are covered by the Fellowship (Milgat Nasi) awarded to Mr. Genish by BIU.

11. Details of scholarship/stipend and travel support for candidate

Currently supported by research funding. We intend to seek specific and dedicated funding for these activities.

12. Funding arrangements for travel for supervisors

Based on research funds of the supervisors.

13. Proposed form of Award: It is agreed that if successful, the candidate will be awarded a single degree with testamurs from both institutions each of which will contain the following expression "conferred as a single degree under a joint PhD program between the University of Melbourne and the [name of Partner Institution]".

Yes No

Approvals

CANDIDATE

NAME SIGNATURE DATE

UNIVERSITY OF MELBOURNE

SUPERVISOR(S)

NAME SIGNATURE DATE

NAME SIGNATURE DATE

HEAD OF DEPARTMENT

NAME SIGNATURE DATE

PRO-VICE CHANCELLOR (GRADUATE RESEARCH)

NAME SIGNATURE DATE

CONTACT DETAILS OF DEGREE ADMINISTRATOR

NAME EMAIL ADDRESS FAX

PARTNER INSTITUTION

SUPERVISOR(S)

NAME SIGNATURE DATE

NAME SIGNATURE DATE

HEAD OF DEPARTMENT

NAME SIGNATURE DATE

HEAD OF INSTITUTION OR NOMINEE

NAME SIGNATURE
Prof. Haim Taitelbaum
Rector
Bar-Ilan University

CONTACT DETAILS OF DEGREE ADMINISTRATOR

NAME ADDRESS

PHONE FAX

EMAIL ADDRESS

OFFICE USE ONLY			
SCHOLARSHIPS COMMENTS	<input type="text"/>	DATE	<input type="text"/>
MSGR COMMENTS	<input type="text"/>	DATE	<input type="text"/>
EXPECTED COMPLETION DATE	<input type="text"/>	MERLIN CHECKED	<input type="text"/>