

**Appointment of Research Degree Examiners (ARDE)**

The form must be completed by the main supervisor and sent to the Head of School (or nominee) no later than **28 days** before the intended submission date of the dissertation. The choice of examiners should have been discussed with the candidate and the proposed examiners contacted to ensure they are willing to perform the role prior to the completion of this form. The form must be approved by the Head of School (or nominee) and the Faculty PGR Director (or nominee), and submitted electronically to the Academic Quality and Policy Office (AQPO) at [pgr-exams@bristol.ac.uk](mailto:pgr-exams@bristol.ac.uk). Where the Head of School, the Faculty PGR Director or a designated nominee is one of the candidate’s supervisors, the form should be approved and signed by an alternative senior member of academic staff in the school or faculty.

The University’s requirements for appointing research degree examiners are in Section 9.3.2 of the *Regulations and Code of Practice for Research Degree Programmes* (<http://www.bristol.ac.uk/academic-quality/pg/cop-research-degrees.html>).

1. **Details of the candidate and the dissertation**

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| Full name of candidate | Dan Saattrup Nielsen |
| Student ID number | 1638518 |
| School / Department | Mathematics |
| Faculty | Science |
| Main supervisor  (full name and title) | Professor Philip David Welch |
| School / Department postgraduate administrator | Alicia Midgely |

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| Degree sought  (e.g. PhD, MPhil, EngD, etc.) | PhD |
| Title of dissertation | Virtual Set Theory: Taking the Blue Pill |

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| Expected date of submission | 29-05-2020 |
| Proposed viva date (if already arranged) | July 2020 |
| For Faculty Office use  Final date for submission |  |

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| What, if any, patent or confidentiality restrictions, or other contractual obligations, apply? Please put ‘none’ if not applicable. | None |
| What arrangements have been made to address any patent or confidentiality restrictions, or any contractual obligations? | None |
| Does the student intend to make a request, or has already made a request, for deferred access to the final copy of the dissertation? | **No** |

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| Are there any extenuating circumstances that should be taken into consideration for the viva? | **No**  If yes, the supervisor must ensure that the examiners are made aware of the extenuating circumstances. |

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| Is the candidate a member of staff at the University of Bristol, or are there any other potential conflicts of interest that could undermine the impartiality of an internal examiner? | **No** If yes, please provide details: |
| *If the candidate is a member of staff or if there are other potential conflicts of interest, two external examiners and an Independent Chair will normally be appointed unless approval has been obtained from the Faculty PGR Director. See Section 9.3.2 of the* Regulations and Code of Practice for Research Degree Programmes *and Section B below.* | |

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| Will the examination be held remotely by video link? | Yes / No |
| *If so, please complete Section D of this form.* | |

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| Will there be any observers at the viva? | **No** |
| *A request on Section E of this form may be made for observers to attend the viva. See Section 9.4.4 of the* Regulations and Code of Practice for Research Degree Programmes *and Section E below.* | |

1. **Nomination of Examiners and, if required, an Independent Chair**

Two or more examiners must be appointed for a research degree examination, with at least one being external and independent of the University. In certain circumstances (for example where there are only external examiners) an Independent Chair will also be appointed. The Independent Chair is **not** an examiner. See Section 9.3.2 of the *Regulations and Code of Practice for Research Degree Programmes.*

Please specify the number of examiners in each category.

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| External Examiner/s | 1 | Internal Examiner/s | 1 |

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| Will an Independent Chair be appointed? | Yes |

Please provide details of each examiner and, if required, the Independent Chair in the boxes below. Duplicate the relevant boxes if there are more than one external or internal examiner. Examiners will receive a printed copy of the dissertation. If any of the examiners or an Independent Chair wish to receive an electronic copy, please click the box next to their name.

**External examiner/s**

*External examiner contact details will only be used to contact the examiner in relation to the examination process and will not be shared with a third party.*

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| Name and title | Dr. David Asperó | | | | | Electronic copy |
| Position | Senior Lecturer | | | | | |
| Department and institution | School of Mathematics, University of East Anglia. | | | | | |
| Preferred postal address | 1.28A Science,  University of East Anglia,  Norwich Research Park,  Norwich, Norfolk,  NR4 7TJ,  United Kingdom | | | | | |
| Email address | d.aspero@uea.ac.uk | | | | | |
| Telephone (required for delivery of the dissertation by courier) | +44 (0)1603 59 1433 | | | | | |
| Research interests (if described on web pages, please provide web address) | *Key words:*  Set theory, and more specifically infinite combinatorics, large cardinals, forcing, forcing axioms, and their interactions. | | | | | |
| Research degrees examined at this level | *Please select one of the options* | | | | | |
| None | 1 | 2 | 3 | 4 X | More than 4 |
| Has the examiner been employed (including in any honorary positions) by the University of Bristol? | No  If yes, when did the appointment end? | | | | | |
| Does the examiner have any connections to the candidate, the research project, the supervisors or the University? | No  If yes, please specify: | | | | | |
| Has the examiner been appointed to undertake multiple examinations (e.g. an approved extended appointment to examine research masters)? | No  If yes, please provide details: | | | | | |

*For completion by school or faculty staff:*

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| How many times has the external examiner been appointed, prior to this nomination, as a research degree examiner at the University of Bristol this academic year? | *Please select one of the options* | | | |
| None X | 1 | 2 | More than 2 |
| *An individual may only be appointed by the University as an external examiner for a maximum of twice each academic year. Any exceptions must be agreed by the Faculty PGR Director. There is a separate, general appointment process for external examiners of research masters to undertake multiple exams, which is followed by their appointment for an individual candidate on the ARDE form.* | | | | |

**Internal examiner/s**

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| --- | --- | --- | --- | --- | --- | --- |
| Name | Dr. Kentaro Fujimoto | | | | | Electronic copy |
| Position | Lecturer | | | | | |
| School / Department | School of Mathematics  Department of Philosophy  *The examination copy of the dissertation will normally be sent to the School address unless AQPO is informed of an alternative address.* | | | | | |
| Research interests (if described on web pages, please provide web address) | *Key words:*  Mathematical and Philosophical Logic; Proof theory | | | | | |
| Research degrees examined at this level | *Please select one of the options* | | | | | |
| None | 1 | 2 X | 3 | 4 | More than 4 |
| Does the examiner have any connections to the candidate, the research project or the supervisors? | **No**  If yes, please specify: | | | | | |

**Independent Chair (if required).**

If an Independent Chair is proposed for an unforeseen reason *after* this form has been approved, a separate *Appointment of an Independent Chair* form may be completed (from <http://www.bristol.ac.uk/directory/exams/staff/research-degrees-staff-information/>).

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| Name | Jeremy Rickard | Electronic copy |
| Position | Professor | |
| Department / School | School of Mathematics | |
| Does the Independent Chair have extensive experience of research degree examinations as an examiner and have a good understanding of the University’s regulations for the award being examined? | Yes | |
| Does the Independent Chair have any connections to the candidate or the research project? | No | |

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| Full name of candidate | Dan Saattrup Nielsen |

1. **Declaration and approval**

I am satisfied, to the best of my knowledge, that:

* The external examiner(s) has the required expertise in the candidate’s subject area.
* The examiners between them have adequate experience of examining research degrees for the same type of programme as that leading to the candidate’s intended award. An Independent Chair, if appointed, may cover this requirement for an inexperienced internal examiner.
* The internal examiner/s (or the Independent Chair if appointed) understands the requirements of the University’s regulations that apply to the award.
* None of the examiners has any connection with the candidate, the research project or the supervisors or, in the case of the external examiner/s, with the University, that might impair their ability to make a fair and impartial assessment of the candidate’s work. The Independent Chair, if appointed, has not had any prior involvement with the project or the candidate that might impair a fair and impartial assessment.
* The request on remote participation by video link in Section D below (if completed) is endorsed.
* The request for observers at the viva in Section E below (if completed) is approved.

**Main supervisor**

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| Signature: PDWelch  Name: Prof. Philip Welch | Date: 30.iv.20 |

**Head of School (or nominee)**

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| Signature:  Name: | Date: |

**Faculty PGR Director (or nominee)**

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| Signature:  Name: | Date: |

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| Full name of candidate | Dan Saattrup Nielsen |  |

1. **Remote participation by video link**

This section should only be completed if, in exceptional circumstances, the candidate or an external examiner wishes to participate in the viva remotely by video link. See Section 9.4.8 and Annex 6 of the *Regulations and Code of Practice for Research Degree Programmes.* A request should not be made where it is felt that the candidate may be placed at a disadvantage*.* Endorsement of the request by the main supervisor, the Head of School (or nominee) and the Faculty PGR Director (or nominee) is provided in Section C above.

*As part of the University’s response to coronavirus, the requirements around oral examinations and remote participation have been relaxed. Under current circumstances, it is permissible for all the participants to be remote if this is the only way of continuing with the examination. It is also permissible for the candidate not to have an independent person with them if this is not possible and if an Independent Chair has been appointed to oversee the examination. Faculty PGR Directors have been given delegated authority to approve arrangements for remote oral examinations. Forms should still be sent to AQPO for the record.*

If a remote participant is proposed for an unforeseen reason *after* this form has been approved, a separate *Remote participation by video link* form may be completed (from: <http://www.bristol.ac.uk/directory/exams/staff/research-degrees-staff-information/>).

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| Who wishes to participate in the viva remotely by video link?  *Please provide names.* | Dan Saattrup Nielsen  Dr Kentaro Fujimoto  Dr David Aspero |  |
| What arrangements have been put in place to support remote participation by video link, including preparations around the technology and platform to be used? | Link will be tested thoroughly before the Examination |  |
| If the candidate is the remote party, what is the name and position of the independent person who will accompany the candidate?  *Alternatively, please confirm that an Independent Chair has been appointed.*  *Please discuss this requirement with your Faculty PGR Director if you have any queries.* | Indep. Chair |  |

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| **Confirmation** | **Yes** |
| Have the candidate and all the examiners agreed to participate in the viva by video link? (please click on box) YES (Box unclickable) |  |

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| Full name of candidate |  |

1. **Observers at the viva**

This section should be completed if there are observers who wish to attend the viva. Approval of the request is provided by the Head of School (or nominee) and the PGR Faculty Director (or nominee) in Section C above.

The agreement of the candidate and all examiners is required for observers to attend the viva. See Section 9.4.4 of the Regulations and Code of Practice for Research Degree Programmes for the regulations on observers

If a request for observers emerges *after* this form has been approved, a separate *Request for observers to attend a viva* form may be completed (from: <http://www.bristol.ac.uk/directory/exams/staff/research-degrees-staff-information/>).

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| **Name of observer** | **Position** | **Reason for attending the viva** |
| N/A |  |  |
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| **Confirmation** | **Yes** |
| Have the candidate and all the examiners agreed to the observer/s attending the viva? (please click on box) |  |

AQPO/April 2020